



Manufactured by:  
Backyard Discovery  
3305 Airport Drive, Pittsburg, KS 66762  
800-856-4445

Basepoint Business Centre: Rivermead Drive, Westlea, Swindon SN5 7EX Phone: 0800-118-2476  
J.P. Coenstraat 7, The Bridge, The Hague, 2595 WP, Netherlands Phone: 08005678990

# 12x10 LOUVERED PERGOLA

## MODEL # : 2407046B / 2407046B-I & 2407053B



### WARNING

Cancer and Reproductive Harm  
[www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)



Please visit [www.backyarddiscovery.com](http://www.backyarddiscovery.com)

For the most up to date assembly manual, to register your product, or to order replacement parts *Para obtener instrucciones en español, visite*  
[www.backyarddiscovery.com](http://www.backyarddiscovery.com)



EASY STEP-BY-STEP  
3D INTERACTIVE INSTRUCTIONS  
DOWNLOAD THE FREE APP



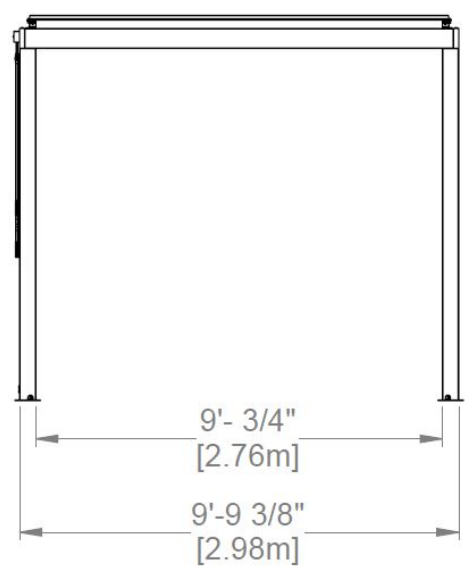
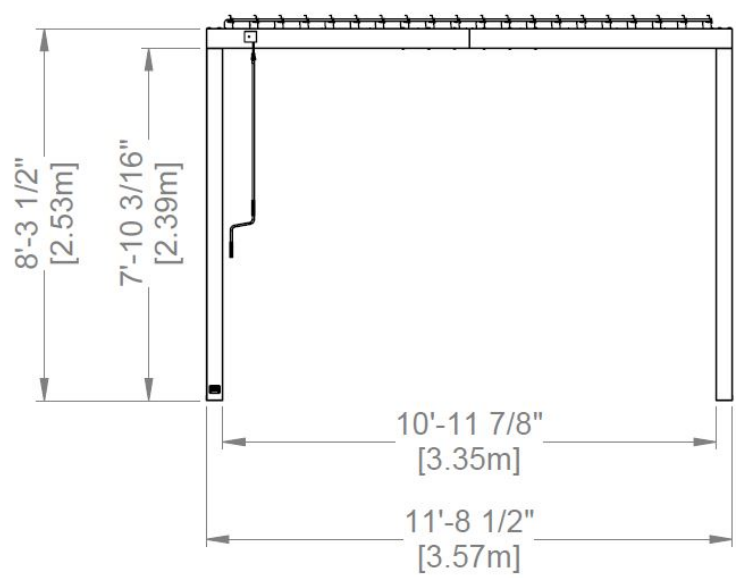
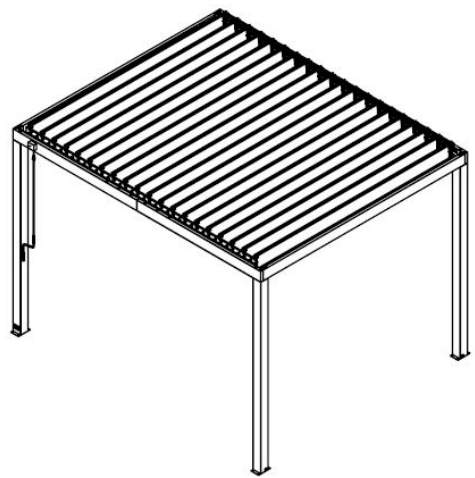
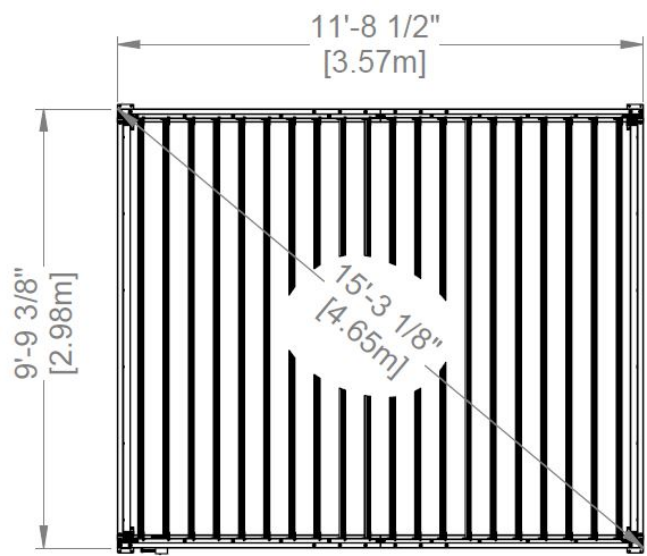
# OWNER'S MANUAL - BASIC SETUP DIMENSIONS & ASSEMBLY NOTES

It is critically important that you start with square and level footings, concrete pad or deck to attach your structure

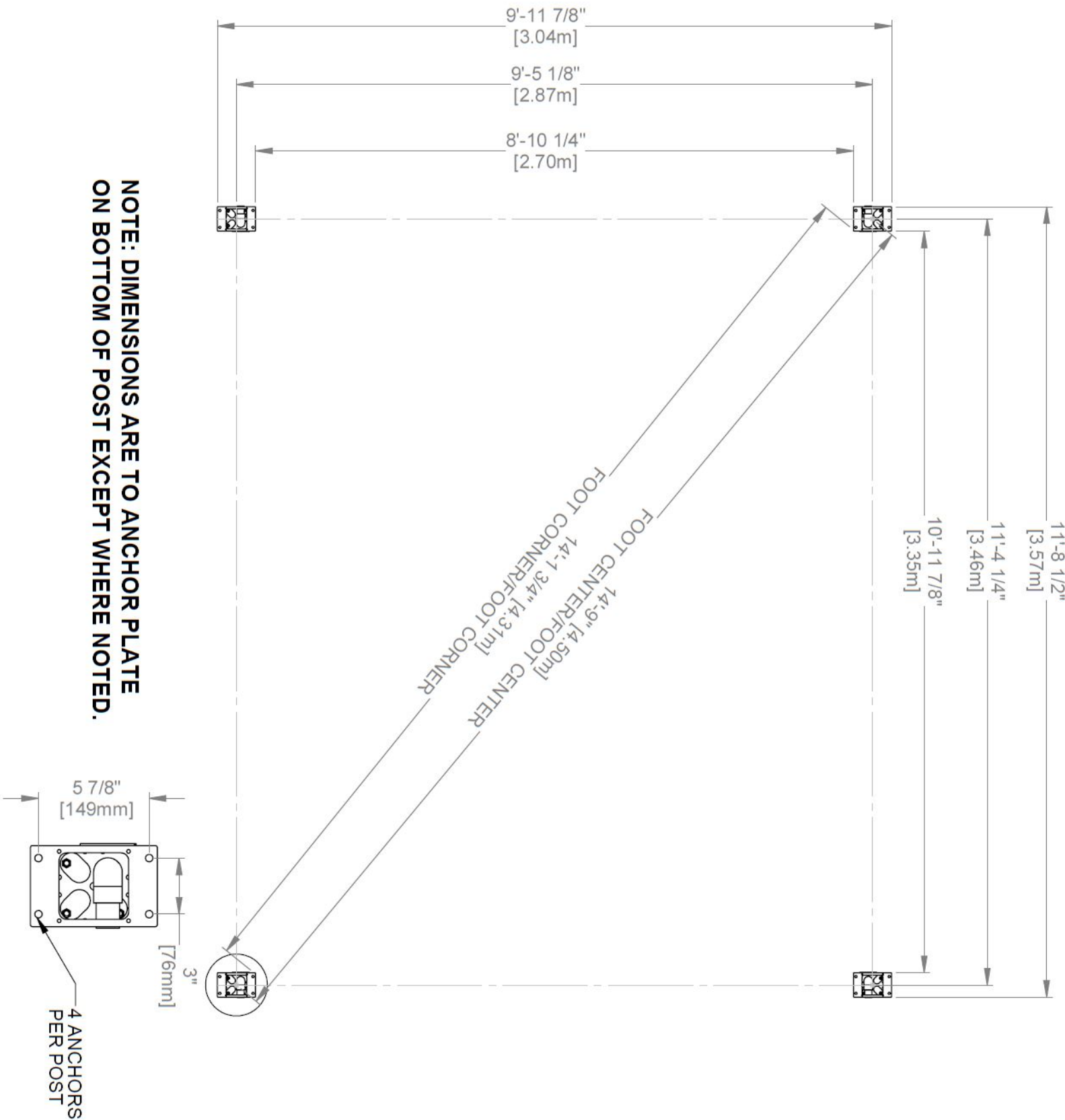
- Pay close attention to the items needed for each step. Make sure you are using the correct hardware for each step.
- Using incorrect hardware may result in improper assembly
- Remember to double check for underground utilities and overhead electrical lines

Post mounts are provided with your structure which allows you to permanently install your structure to a pre-existing or new wood or concrete surface. See Anchor Instructions for further details and recommendations.

- The hardware to attach the post mounts to the structure is included.
- The hardware to mount the structure permanently to a concrete surface is included.
- The hardware to mount the structure permanently to a wood deck is NOT included and will need to be purchased separately. You must ensure there is ample structural support under the deck before permanently attaching.

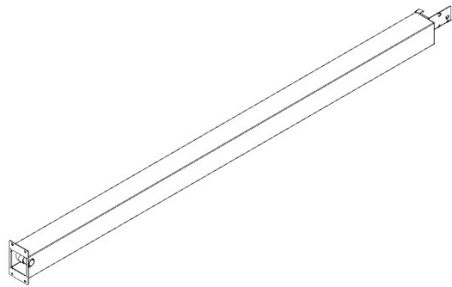


# OWNER'S MANUAL - ANCHORING LAYOUT

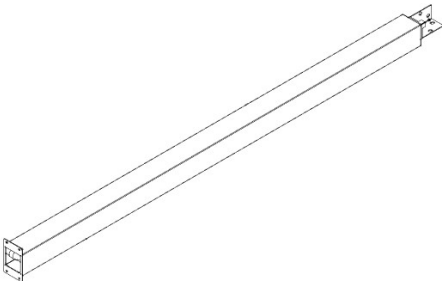


# OWNER'S MANUAL - PARTS IDENTIFICATION

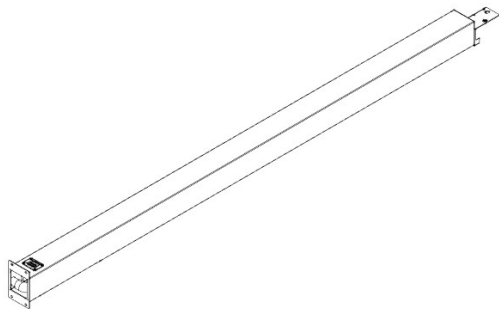
## METAL COMPONENTS (NOT TO SCALE)



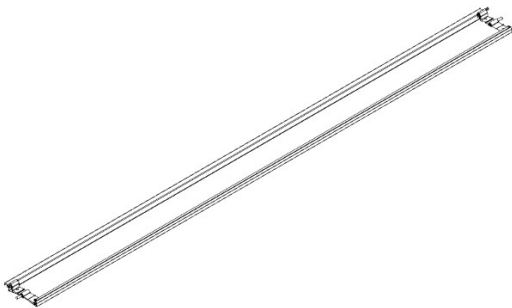
P01 POST - A4M01983  
(x1) 4 5/16"x6 3/4"x99 1/2" (110x172x2527)



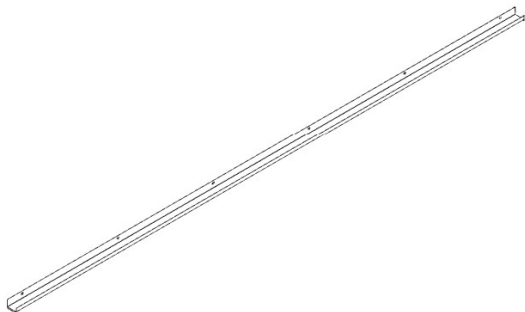
P02 POST - A4M01984  
(x2) 4 5/16"x6 3/4"x99 1/2" (110x172x2527)



P03 POST - A4M02131  
(x1) 4 5/16"x6 3/4"x99 1/2" (110x172x2527)



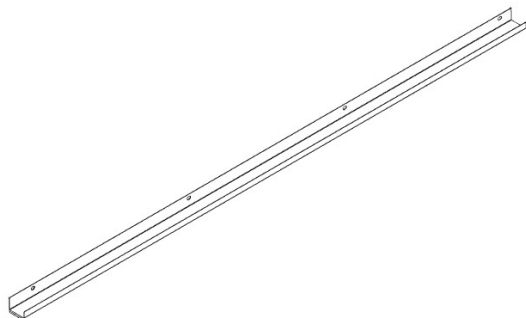
L01 LOUVER - A4M04137  
(x20) 1 11/16"x7 3/4"x114 5/16" (42x196x2904)



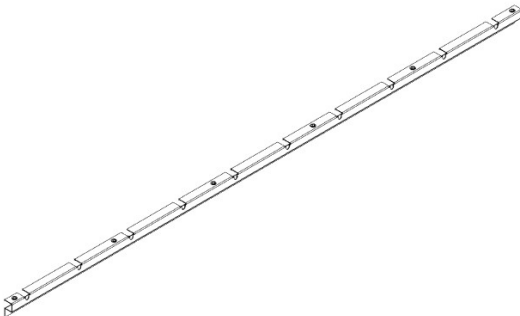
G01 GUTTER - A4M01993  
(x2) 1 9/16"x1 15/16"x108 7/8" (40x50x2765)



G04 GUTTER - A4M02858  
(x2) 1 9/16"x1 15/16"x65 15/16" (40x50x1675)



G03 GUTTER - A4M02857  
(x2) 1 9/16"x1 15/16"x65 15/16" (40x50x1675)

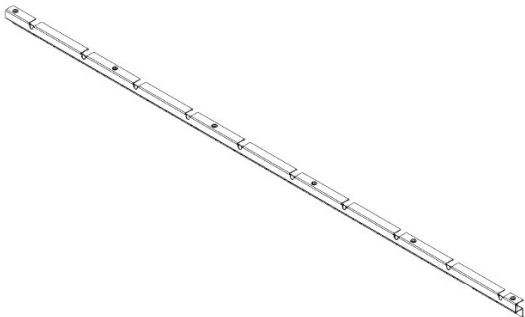


M01 LOUVER MOUNT - A4M02864  
(x2) 1"x1 15/16"x65 7/8" (25x49x1673)

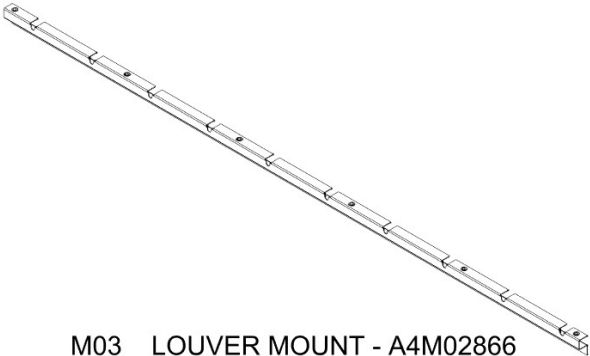


# OWNER'S MANUAL - PARTS IDENTIFICATION

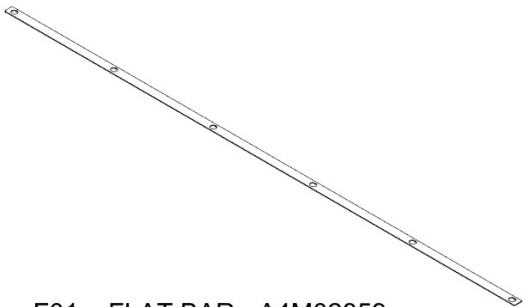
## METAL COMPONENTS (NOT TO SCALE)



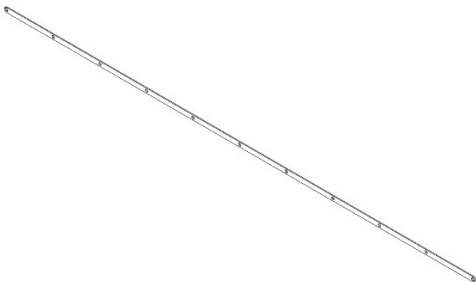
M02 LOUVER MOUNT - A4M02865  
(x1) 1"x1 15/16"x65 7/8" (25x49x1673)



M03 LOUVER MOUNT - A4M02866  
(x1) 1"x1 15/16"x65 7/8" (25x49x1673)



F01 FLAT BAR - A4M02859  
(x4) 1/16"x1"x65 7/8" (2x25x1673)



F02 LOUVER TIE STRAP - A4M02860  
(x4) 1/8"x13/16"x68 1/16" (3x20x1730)



B01 BEAM - A4M01986  
(x2) 1 7/16"x5 1/4"x114 1/2" (36x134x2910)



B02 BEAM - A4M02861  
(x1) 1 7/16"x5 1/4"x70 1/4" (36x134x1784)



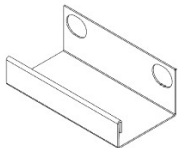
B03 BEAM - A4M02862  
(x2) 1 7/16"x5 1/4"x70 1/4" (36x134x1784)



B04 BEAM - A4M02863  
(x1) 1 7/16"x5 1/4"x70 1/4" (36x134x1784)



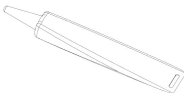
J1 SPLICE BRACKET - A4M02230  
(x2) 1 5/16"x5 3/16"x39 3/8" (33.2x131.2x1000)



G05 GUTTER SPLICE - A4M02004  
(x2) 1 7/16"x2 1/16"x3 15/16" (36x52.5x100)



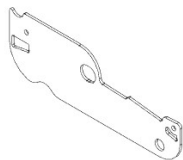
F06 SPACER - A4M02227  
(x1) 1/16"x2 3/16"x2 3/4" (1.5x56x70)



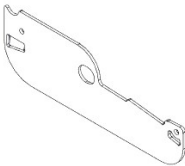
A6P00796 SILICONE  
(x1)

# OWNER'S MANUAL - PARTS IDENTIFICATION

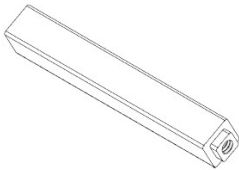
## METAL COMPONENTS (NOT TO SCALE)



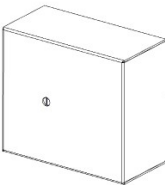
L02 LOUVER DRIVE SIDE PLATE - A4M04139  
(x1) 1/16"x2 3/16"x6 9/16" (2x55x167)



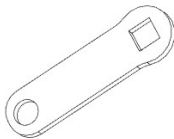
L03 LOUVER SIDE PLATE - A4M04138  
(x39) 1/16"x2 3/16"x6 9/16" (2x55x167)



F05 KEY STOCK - A4M02226  
(x1) 1/2"x1 1/2"x3 3/4" (13x13x95)



F07 COVER - A4M02228  
(x1) 1 9/16"x2 7/8"x3 1/4" (39.5x73x82)



F04 LINKAGE STRAP - A4M02225  
(x1) 1/8"x13/16"x2 5/8" (3x20x66)



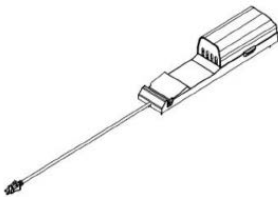
F03 LINKAGE STRAP - A4M02229  
(x1) 1/2"x11/16"x3 13/16" (13x17x97)



L04 LOUVER MECHANISM  
(x1) A4M02132



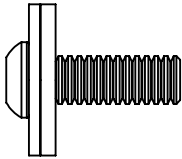
H01 HANDLE  
(x1) A4M04022



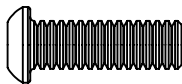
9205413 ELECTRICAL  
(x1) ENCLOSURE

# OWNER'S MANUAL - PARTS IDENTIFICATION

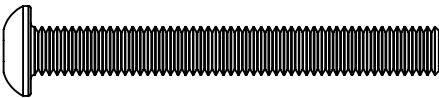
## HARDWARE COMPONENTS



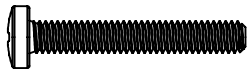
**H101202 | TORX PAN HEAD 1/4-20x3/4 ASSY**  
(x116) | 1/4-20x3/4 ASSY



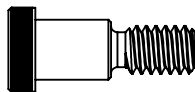
**H101101 | TORX PAN HEAD**  
(x1) | 1/4-20x3/4" BLK



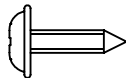
**H101126 | TORX PAN HEAD**  
(x4) | 1/4-20x2 1/8" BLK



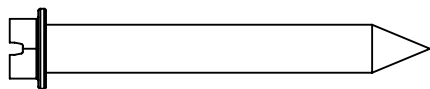
**H101187 | BOLT PPH**  
(x1) | 8-32x1 1/8" BLK



**H101189 | LOW PROFILE SHOULDER BOLT**  
(x2) | 1/4-20x3/8" BLK



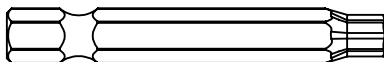
**H100408 | SCREW PWH**  
(x80) | 8x1/2 BLK



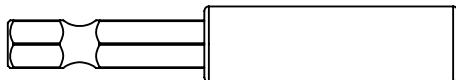
**H100120 | CONCRETE ANCHOR**  
(x16) |



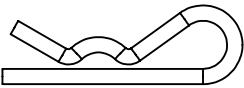
**H101230 | BOLT WH**  
(x16) | 5/16x6 S.S.



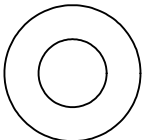
**H100147 | TORX BIT**  
(x1) | T-30



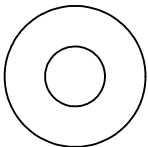
**H101100 | MAGNETIC DRIVER**  
(x1) |



**H101161 | COTTER PIN**  
(x40) |



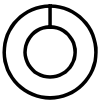
**H100474 | WASHER FLAT**  
(x5) | 9x19 BLK



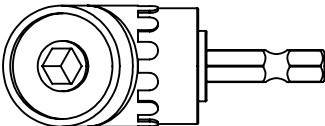
**H100630 | WASHER FLAT**  
(x16) | 8x19 BLK



**H100653 | NUT LOCK**  
(x2) | 1/4 BLK



**H100774 | WASHER SPLIT**  
(x1) | 1/4 BLK



**H101114 | RIGHT ANGLE DRILL ADAPTER**  
(x1) |



**H100114 | TORX WRENCH**  
(x1) | T-30

# PRE-ASSEMBLY STEP 1 - SORTING PARTS

It is critical for ease of assembly that you take the time to sort and organize the parts and hardware.

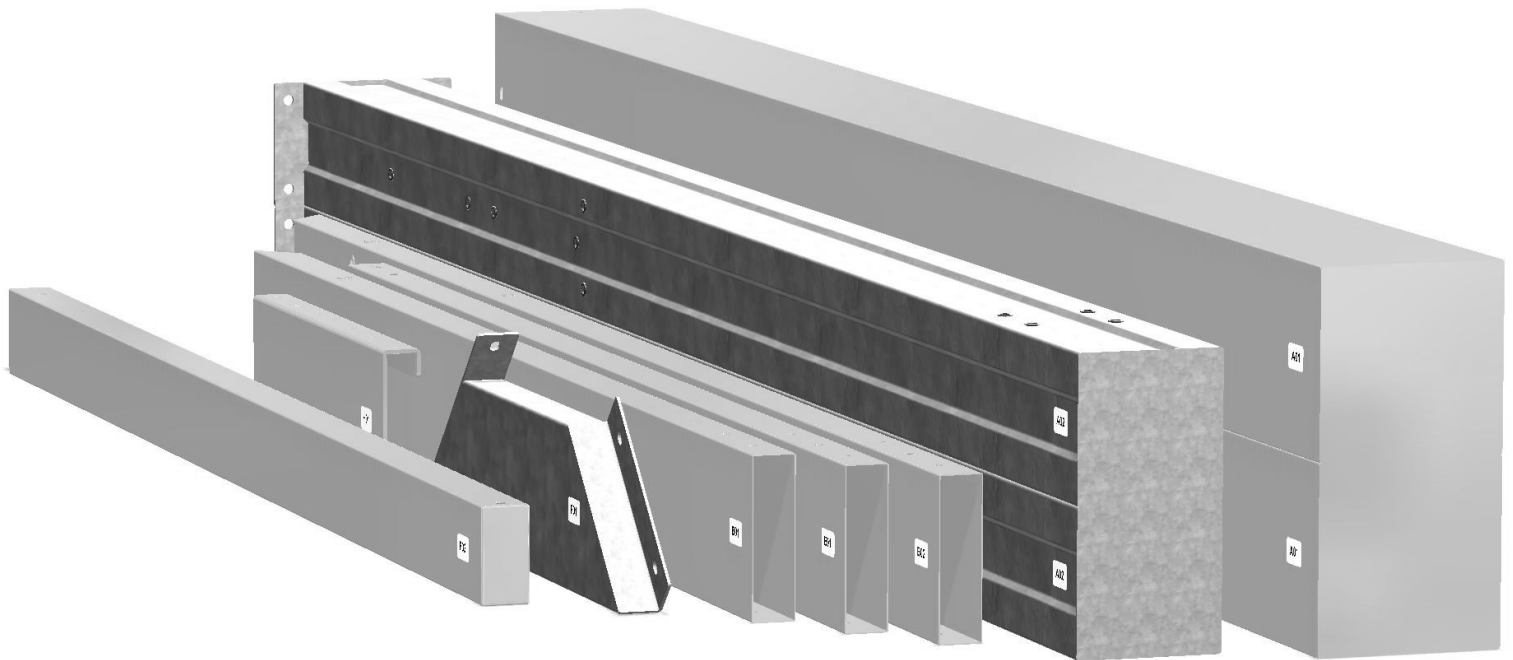
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## METAL PARTS:

- Organize metal parts by the three-digit, alpha-numeric number stamped on each part (ex. P01).
- If there are multiple parts with the same stamped number, stack those pieces together.
- Stamps can be found on the flat surface of the parts or on the end of the parts.
- Allow yourself plenty of room - the parts can take up a significant amount of space.

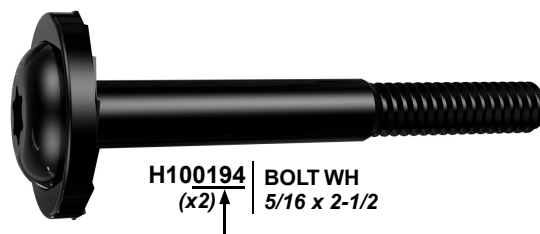
**NOTE: CARTONS ARE NOT ORGANIZED BY PART NUMBER.**

**IT IS RECOMMENDED TO LEAVE LOUVER ASSEMBLIES IN BOX UNTIL NEEDED.**



## HARDWARE PARTS:

- We recommend that you have a separate table to organize the hardware.
- Hardware bags are printed with a seven-digit, alpha-numeric part number.
- You can organize your hardware by part number or group by hardware type (i.e. bolts, nuts, etc.).
- During assembly you only need to reference the last four digits of the number.



PRE-ASSEMBLY STEP 2 - TOOLS REQUIRED



Cordless Drill or  
Electric Drill



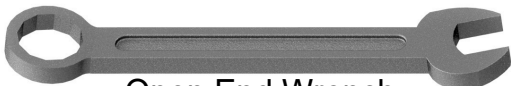
Drill Attachments:  
Phillips Head



1/8", 3/16", 3/8" &  
7/16" Drill Bits



Phillips Screw Driver



Open End Wrench  
7/16"



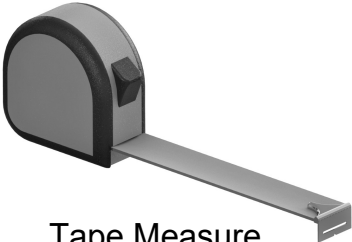
3/8" Drive Ratchet, 1/2" &  
7/16" STD Sockets 1/2" & 7/16"  
Deep Sockets



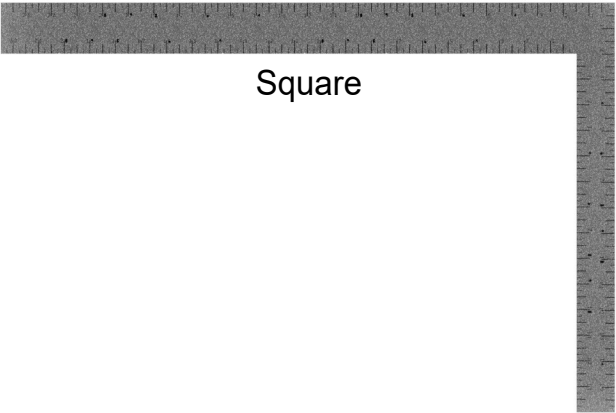
Claw Hammer



Rubber Mallet -  
Optional



Tape Measure



Square





Level 24"

# PRE-ASSEMBLY STEP 3 - CHOOSE YOUR ASSEMBLY METHOD



There are several types of assembly instructions available to you.

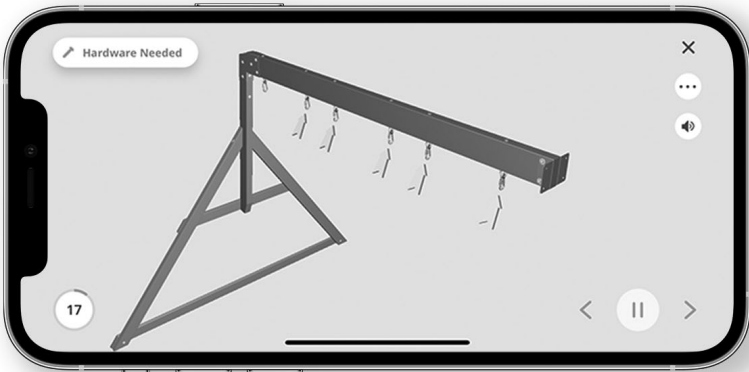
1. Printed Assembly Manual included with your set
2. BILT APP - 3D interactive instructions
3. Combination of the Printed Manual and BILT APP (Note: Step numbers can differ between the two methods)



## Scan for easy 3D instructions

Download the BILT app  
before you begin





# STEP 1 - BEAM ASSEMBLY

| QTY | PART NUMBER | DESCRIPTION                   |
|-----|-------------|-------------------------------|
| 6   | H101202     | TORX PAN HEAD 1/4-20x3/4 ASSY |

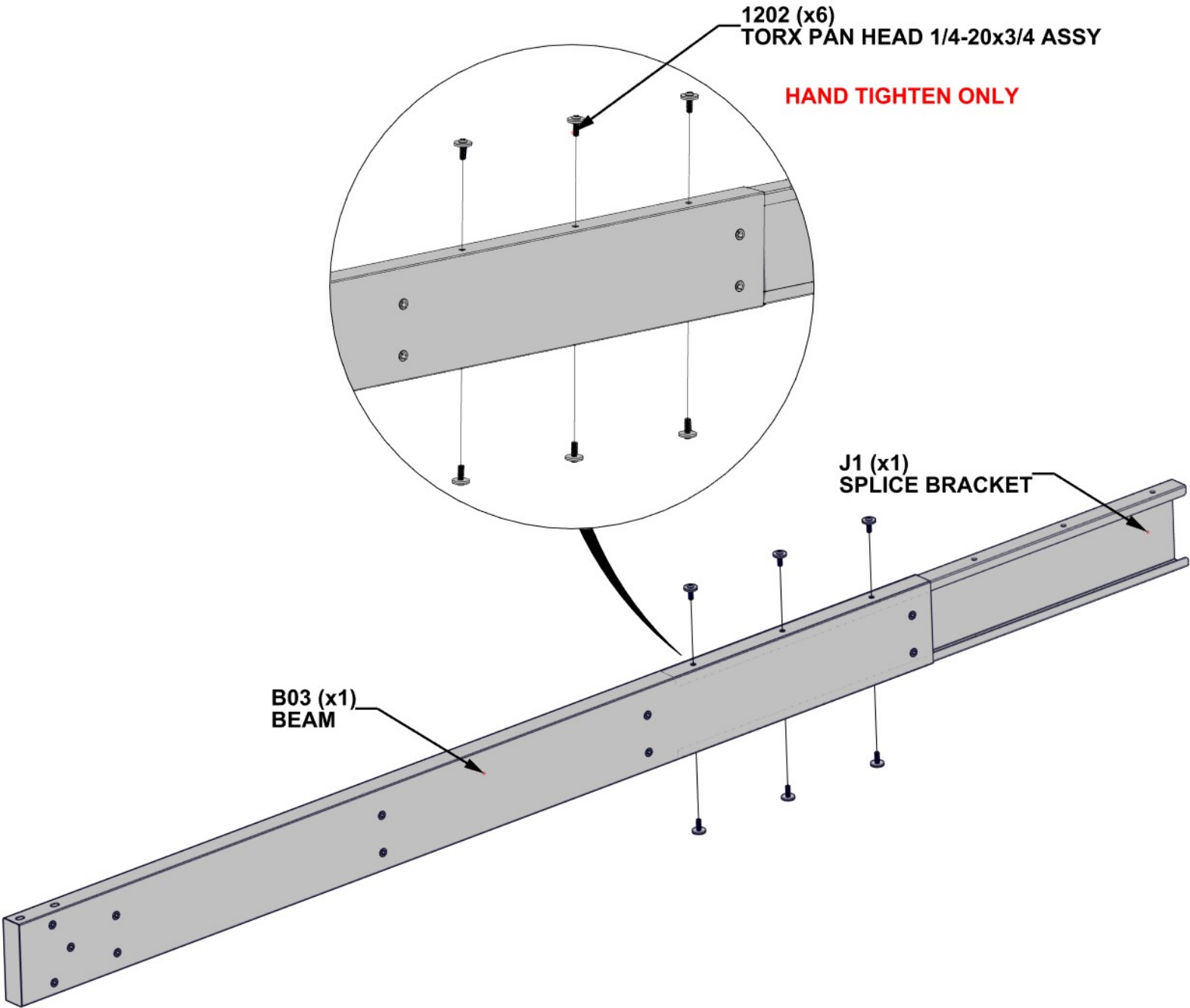


B03 BEAM - A4M02862  
(x1) 1 7/16"x5 1/4"x70 1/4" (36x134x1784)



J1 SPLICE BRACKET - A4M02230  
(x1) 1 5/16"x5 3/16"x39 3/8" (33.2x131.2x1000)

- FOR EASE OF ASSEMBLY, WE RECOMMEND USING SAWHORSES FOR STEPS 1-7.
- BEAM AND SPLICE MUST BE ORIENTED AS SHOWN BELOW. SLIDE J1 INTO B03 AND LINE UP THREE HOLES TOP AND BOTTOM.



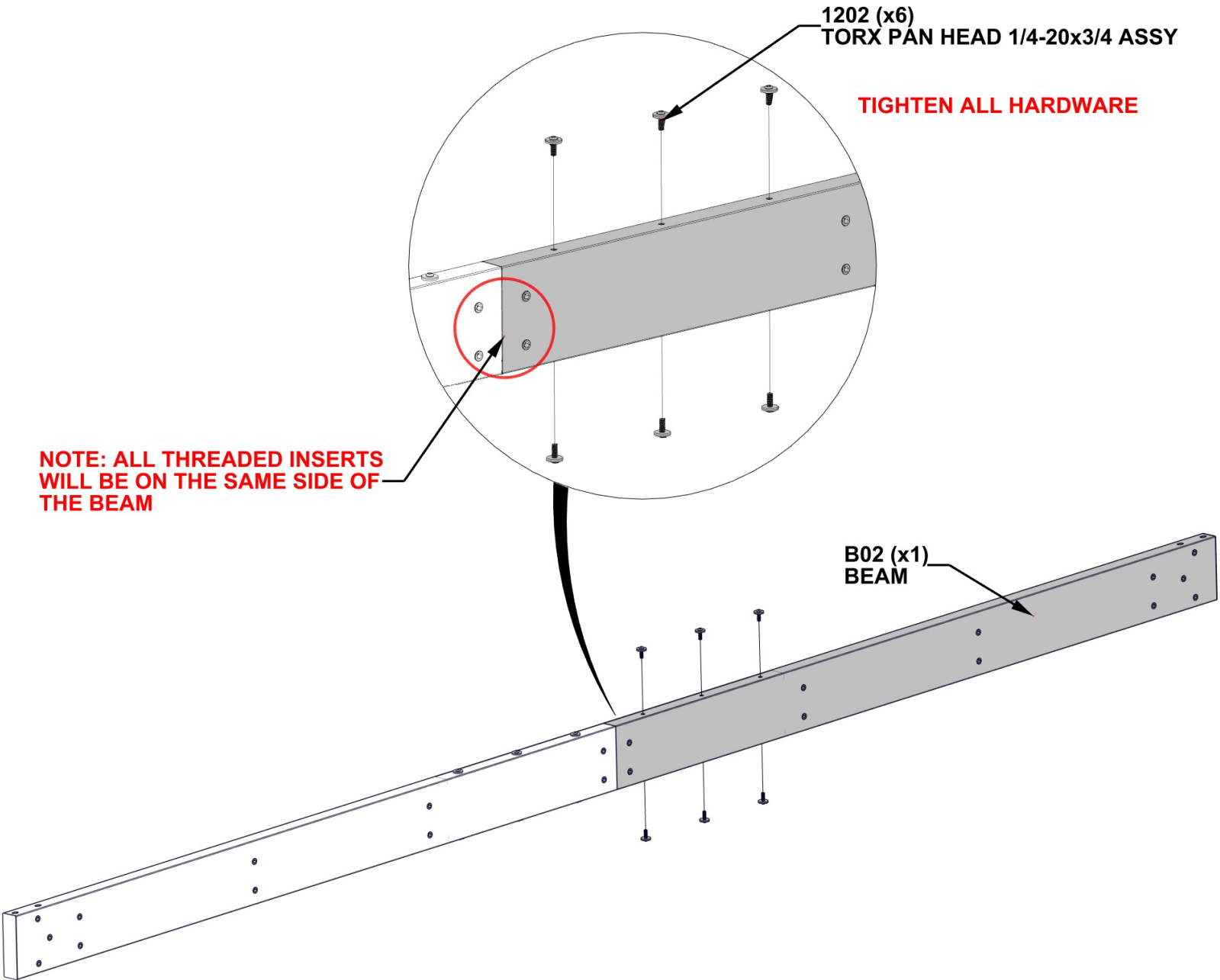
# STEP 2 - BEAM ASSEMBLY

| QTY | PART NUMBER | DESCRIPTION                   |
|-----|-------------|-------------------------------|
| 6   | H101202     | TORX PAN HEAD 1/4-20x3/4 ASSY |



B02 BEAM - A4M02861  
(x1) 1 7/16"x5 1/4"x70 1/4" (36x134x1784)

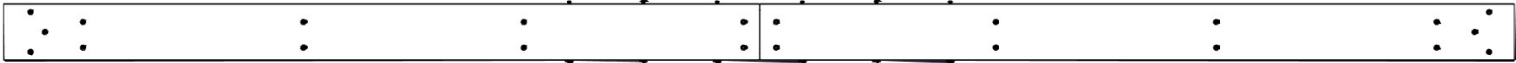
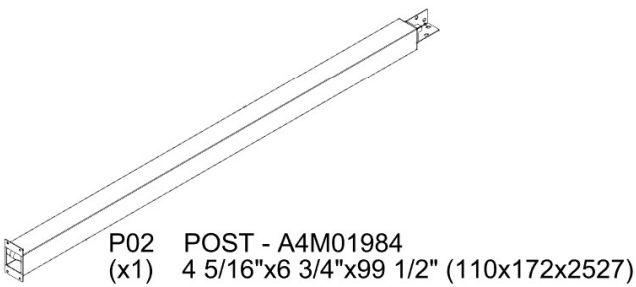
- SLIDE B02 INTO SPLICE BRACKET.  
GENTLY TAP ENDS OF ASSEMBLY WITH  
RUBBER Mallet UNTIL GAP CLOSES.





# STEP 3A - FRAME ASSEMBLY

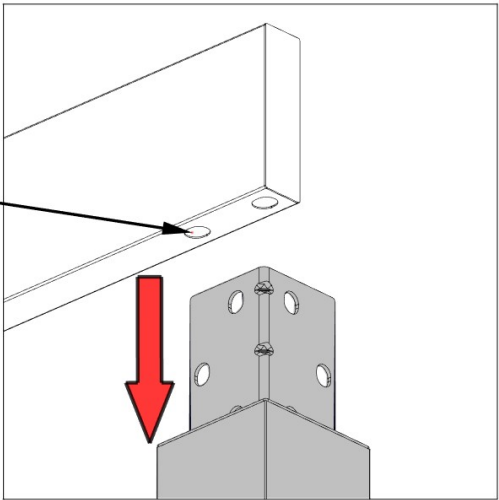
| QTY | PART NUMBER | DESCRIPTION         |
|-----|-------------|---------------------|
| 2   | H101230     | BOLT WH 5/16x6 S.S. |



BEAM ASSEMBLY  
STEP 1 - 2

- ATTACH BEAM ASSEMBLY TO POST BY ALIGNING SLOTS IN BEAM WITH THREADED INSERTS ON TOP POST PLATE. FLUSH ALL SIDES OF BEAM AND POST BEFORE TIGHTENING HARDWARE.

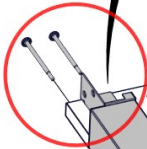
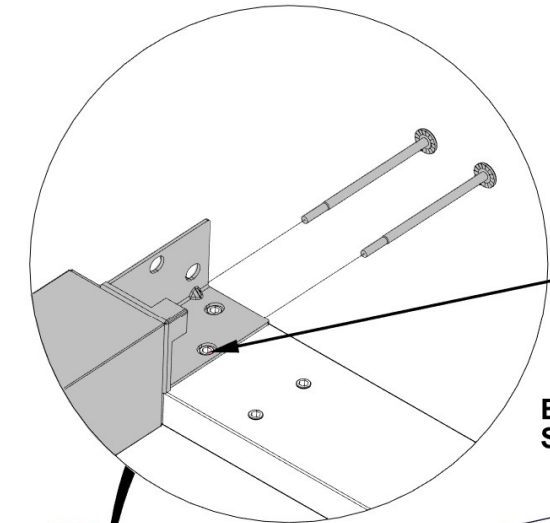
NOTE: LARGE SLOTS INDICATE  
BOTTOM SURFACE OF BEAM.  
SLOTS WILL FIT AROUND THREADED  
INSERTS IN POST PLATE.



BACK VIEW

NOTE: POST BRACKET WILL  
FIT AROUND THREADED  
INSERTS IN BEAM

BEAM ASSEMBLY  
STEP 1 - 2

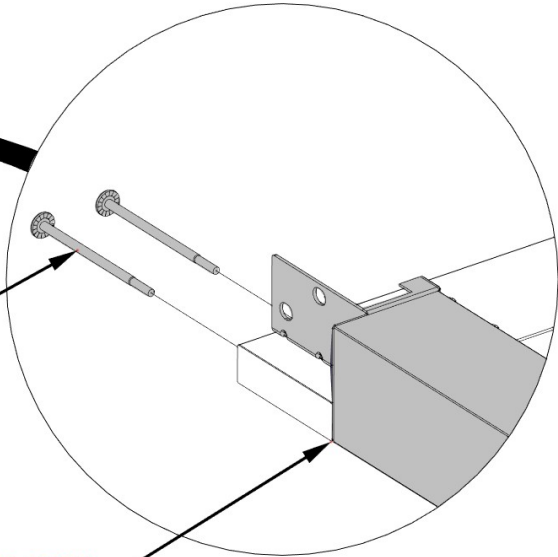


P02 (x1)  
POST

HAND TIGHTEN ONLY

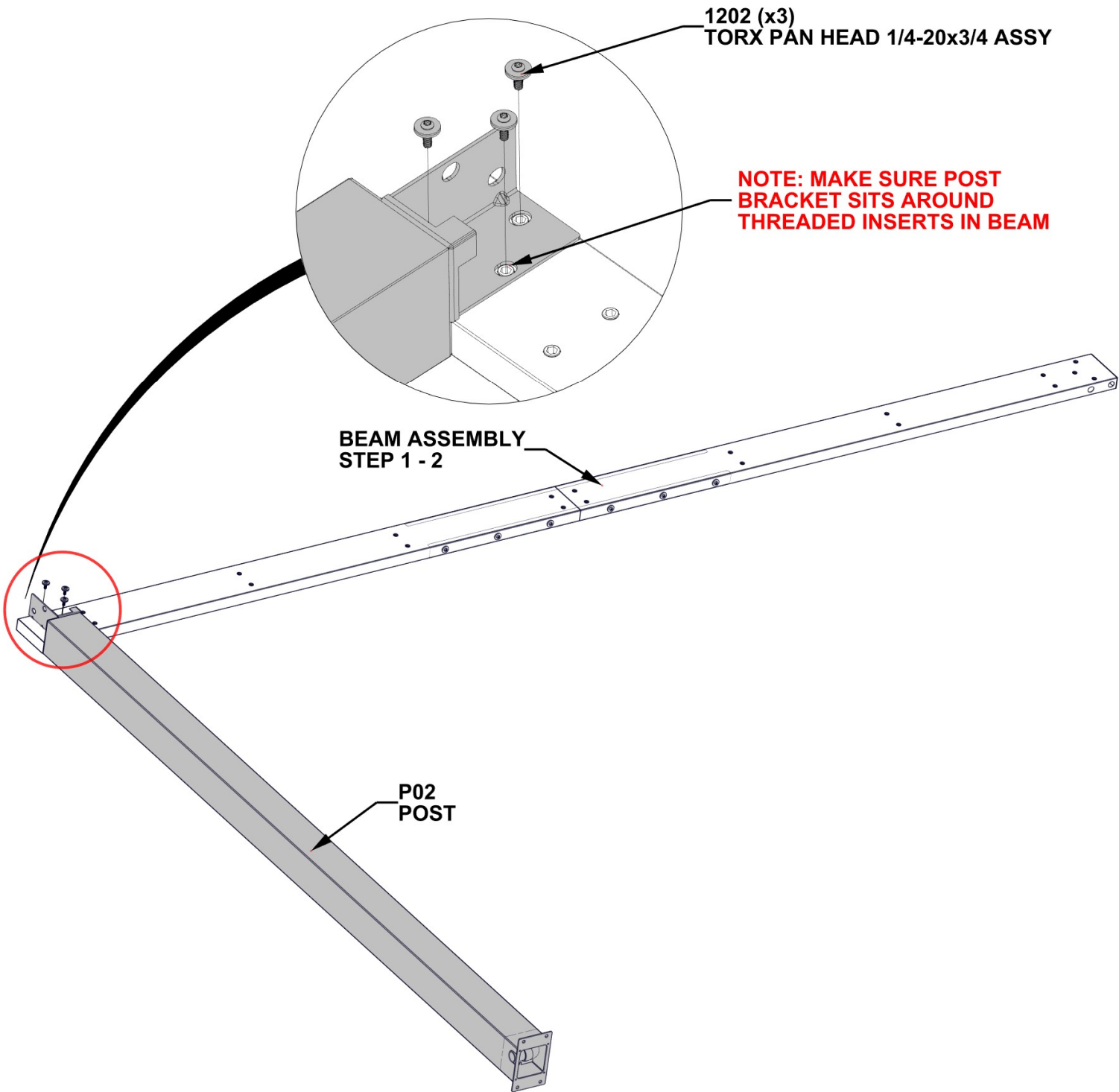
1230 (x2)  
BOLT - 6"

FLUSH

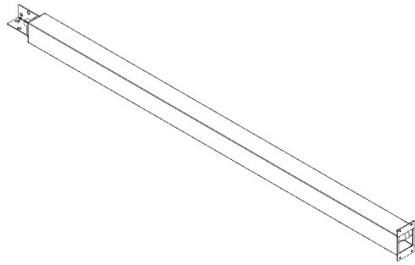


# STEP 3B - FRAME ASSEMBLY

| QTY | PART NUMBER | DESCRIPTION                   |
|-----|-------------|-------------------------------|
| 3   | H101202     | TORX PAN HEAD 1/4-20x3/4 ASSY |



## STEP 4A - FRAME ASSEMBLY

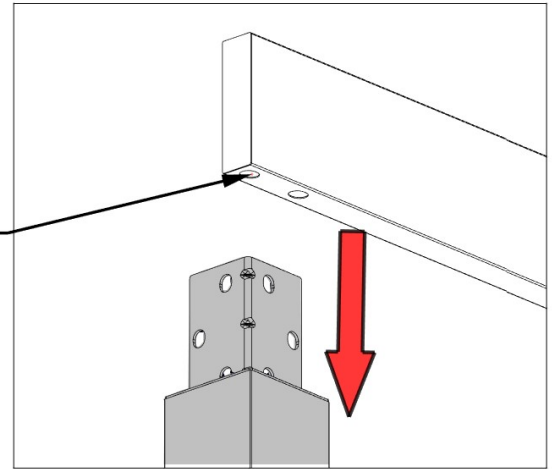


| QTY | PART NUMBER | DESCRIPTION         |
|-----|-------------|---------------------|
| 2   | H101230     | BOLT WH 5/16x6 S.S. |

P01 POST - A4M01983  
(x1) 4 5/16"x6 3/4"x99 1/2" (110x172x2527)

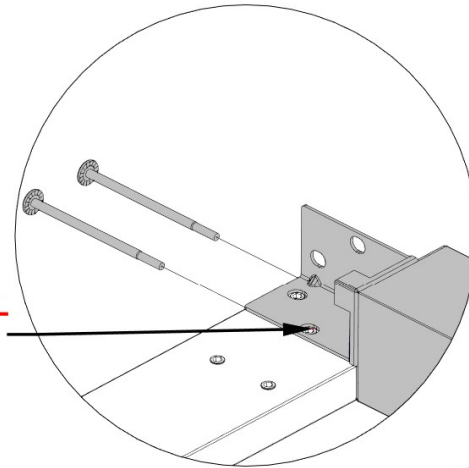
**- ATTACH BEAM TO POST BY ALIGNING SLOTS IN BEAM WITH  
THREADED INSERTS ON TOP POST PLATE. FLUSH ALL SIDES  
OF BEAM AND POST BEFORE TIGHTENING HARDWARE.**

**NOTE: LARGE SLOTS INDICATE  
BOTTOM SURFACE OF BEAM.  
SLOTS WILL FIT AROUND THREADED  
INSERTS IN POST PLATE.**



BACK VIEW

**NOTE: POST BRACKET WILL  
FIT AROUND THREADED  
INSERTS IN BEAM**



BEAM ASSEMBLY  
STEP 1 - 2

P01 (x1)  
POST

1230 (x2)  
BOLT - 6"

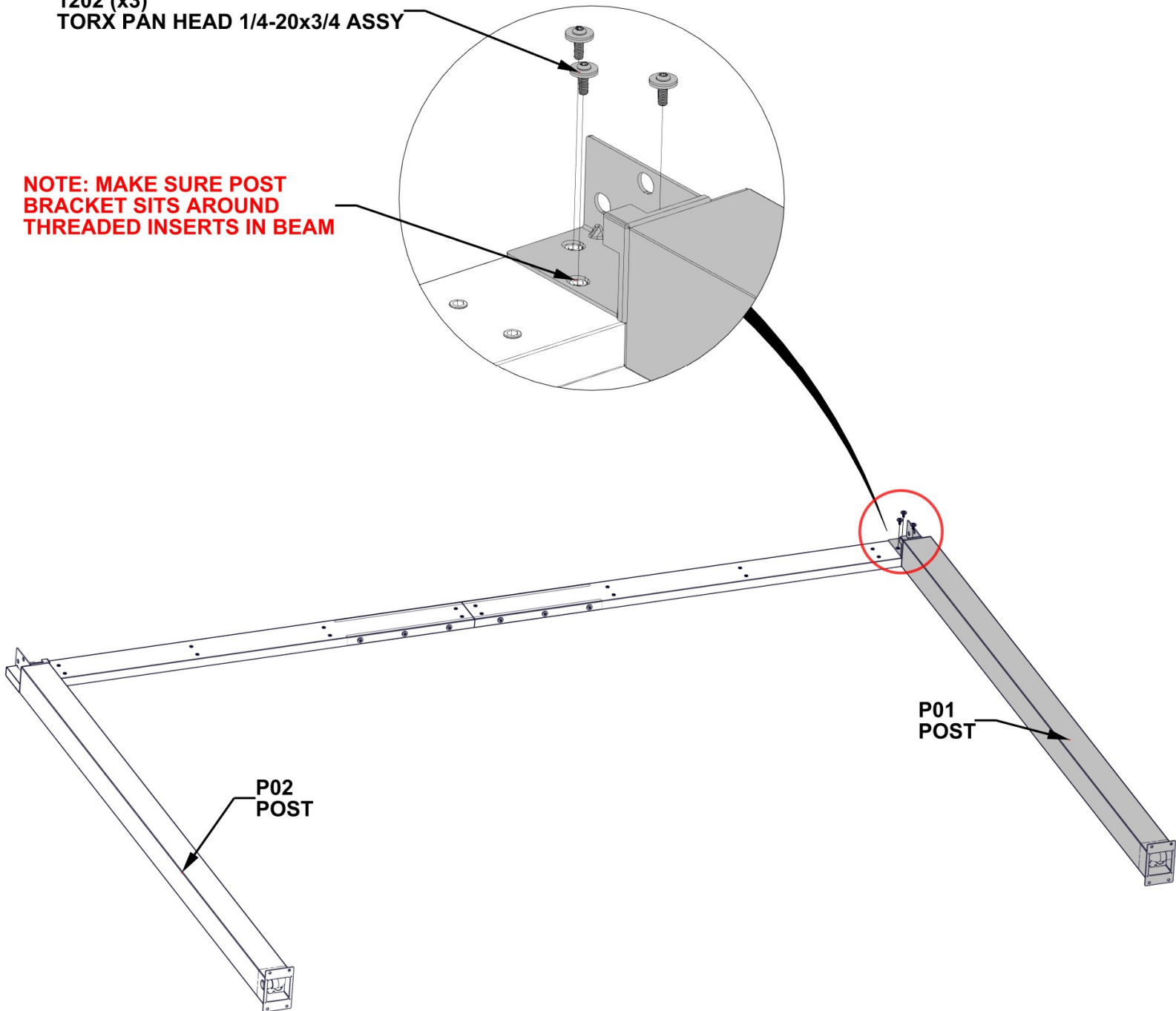
**FLUSH**

## STEP 4B - FRAME ASSEMBLY

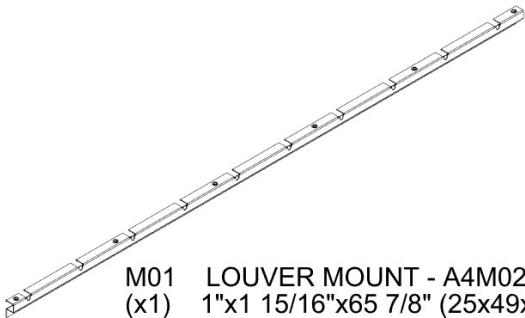
| QTY | PART NUMBER | DESCRIPTION                   |
|-----|-------------|-------------------------------|
| 3   | H101202     | TORX PAN HEAD 1/4-20x3/4 ASSY |

1202 (x3)  
TORX PAN HEAD 1/4-20x3/4 ASSY

**NOTE: MAKE SURE POST  
BRACKET SITS AROUND  
THREADED INSERTS IN BEAM**



# STEP 5 - LOUVER MOUNT ATTACHMENT



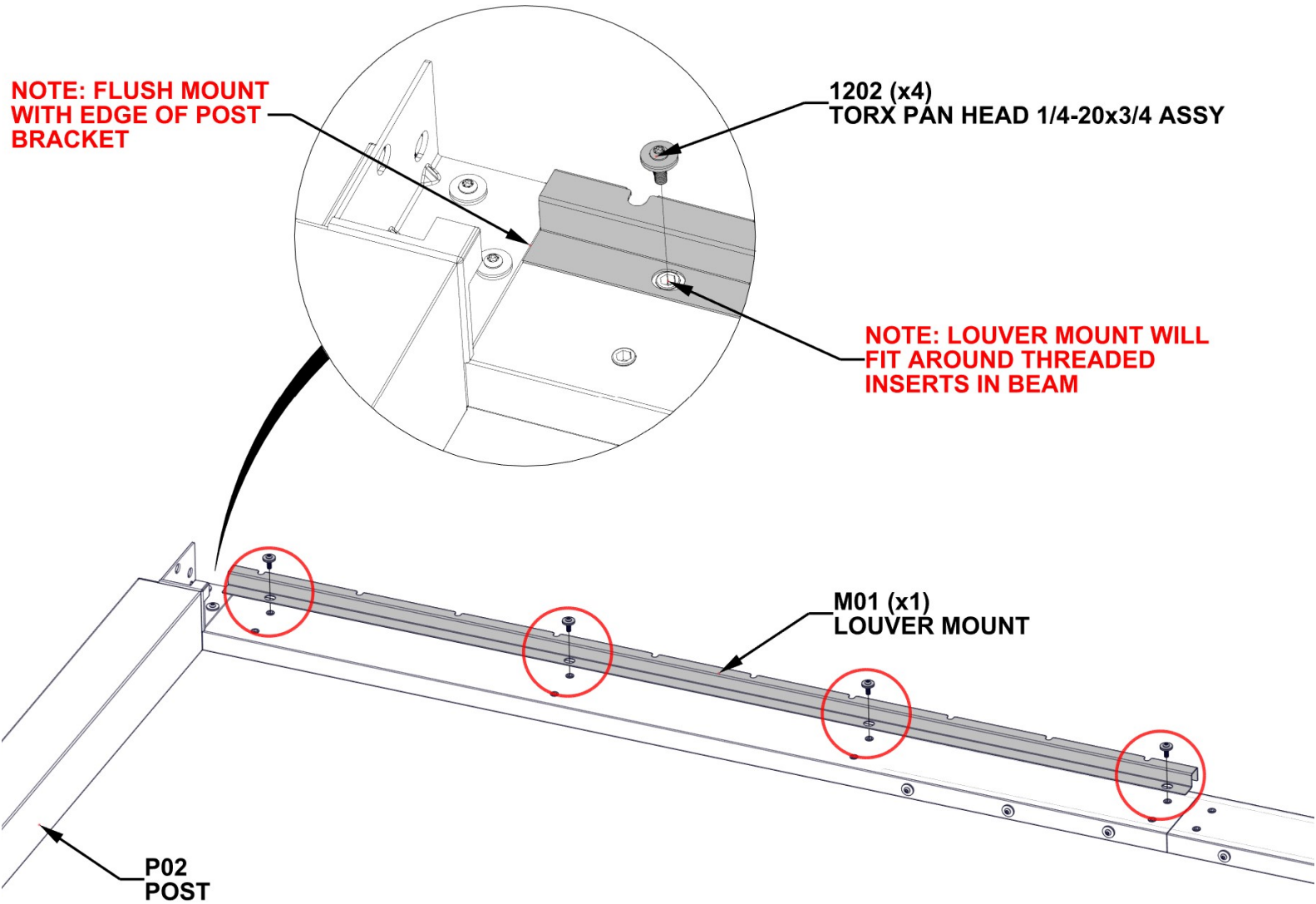
| QTY | PART NUMBER | DESCRIPTION                   |
|-----|-------------|-------------------------------|
| 4   | H101202     | TORX PAN HEAD 1/4-20x3/4 ASSY |

M01 (x1) LOUVER MOUNT - A4M02864  
1"x1 15/16"x65 7/8" (25x49x1673)

NOTE: FLUSH MOUNT  
WITH EDGE OF POST  
BRACKET

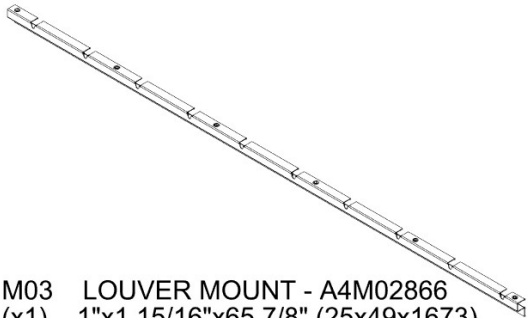
1202 (x4)  
TORX PAN HEAD 1/4-20x3/4 ASSY

NOTE: LOUVER MOUNT WILL  
FIT AROUND THREADED  
INSERTS IN BEAM



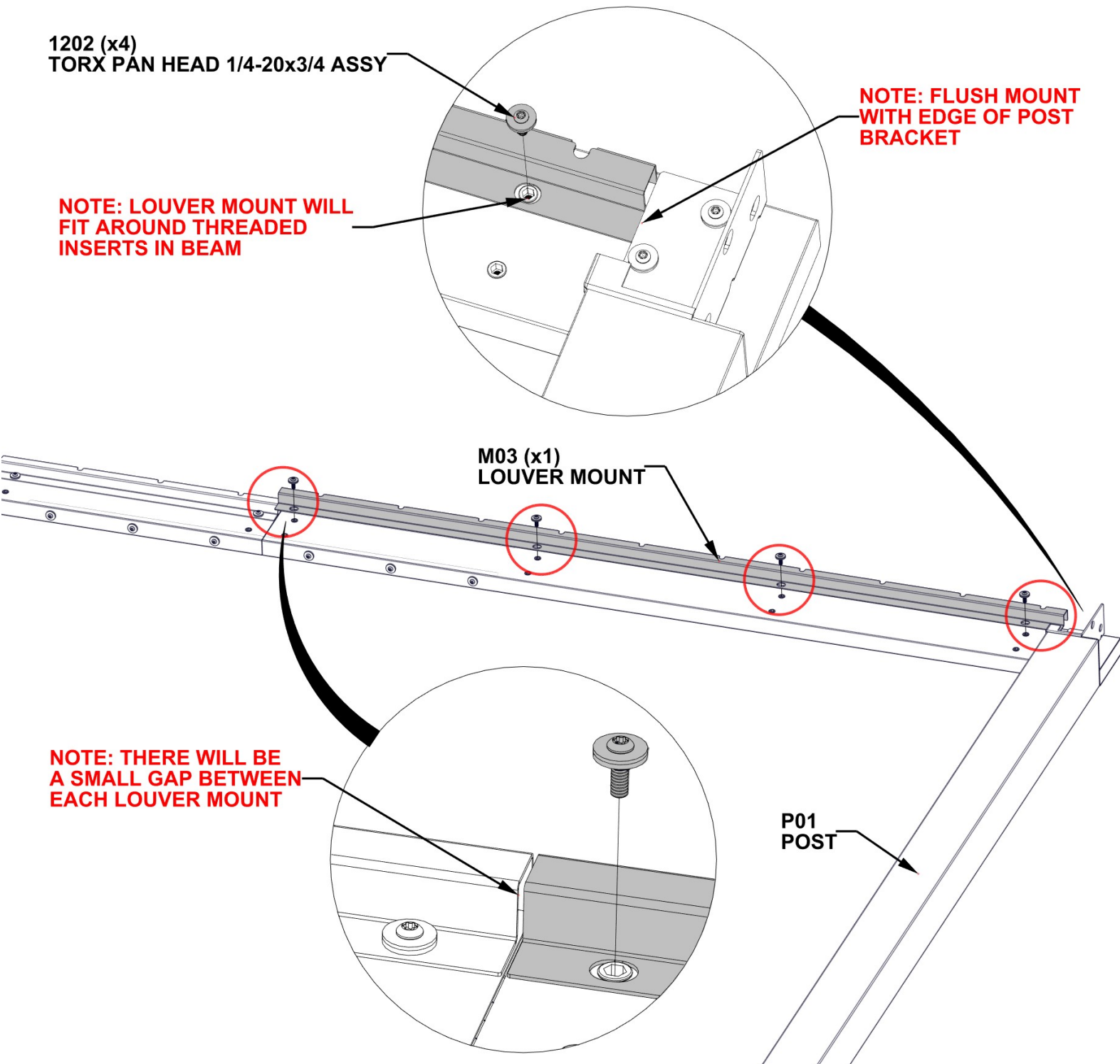


# STEP 6 - LOUVER MOUNT ATTACHMENT

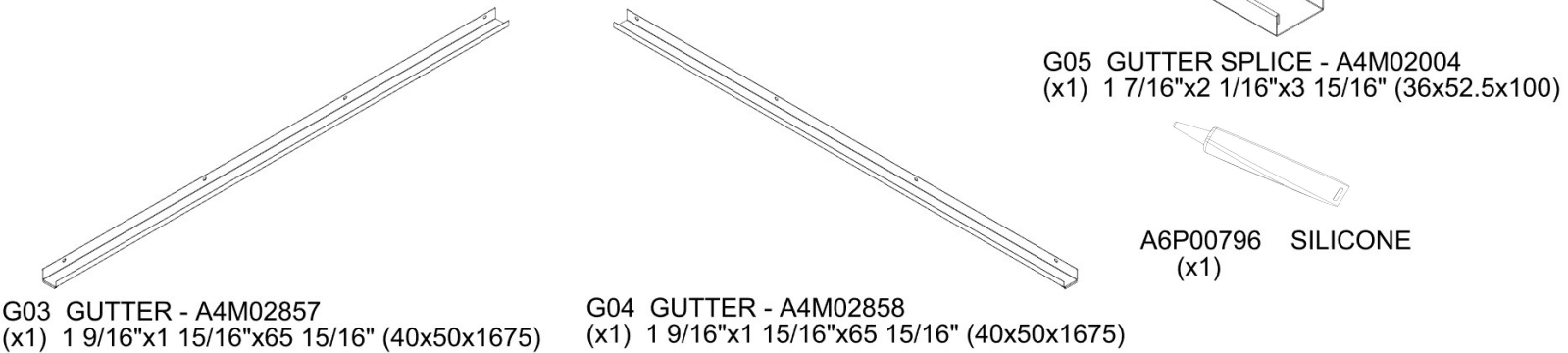


| QTY | PART NUMBER | DESCRIPTION                   |
|-----|-------------|-------------------------------|
| 4   | H101202     | TORX PAN HEAD 1/4-20x3/4 ASSY |

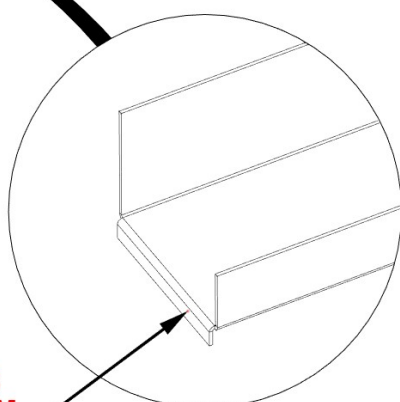
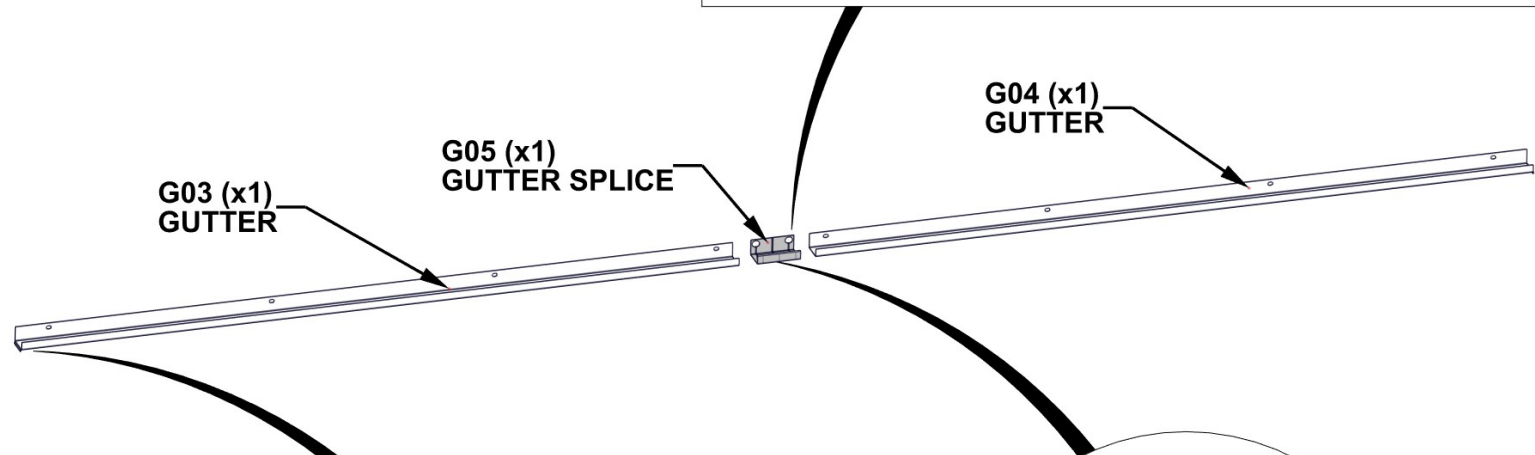
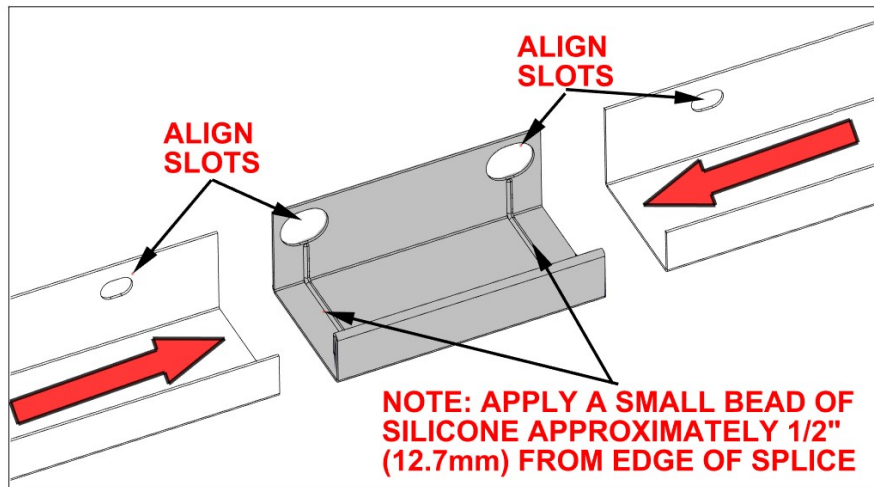
M03 LOUVER MOUNT - A4M02866  
(x1) 1"x1 15/16"x65 7/8" (25x49x1673)



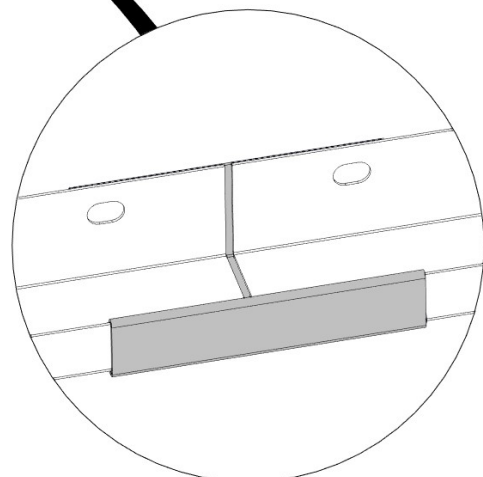
# STEP 7A - GUTTER ASSEMBLY



- MEASURE APPROXIMATELY 1/2" [12.7mm] FROM EACH END OF GUTTER SPLICE AND APPLY A FINE BEAD OF SILICONE.
- SLIDE BOTH G03 AND G04 GUTTERS INTO SPLICE UNTIL ENDS ARE ALMOST TOUCHING. WIPE EXCESS SILICONE USING A RAG OR PAPER TOWEL.
- GLOVES ARE RECOMMENDED WHEN APPLYING SILICONE
- MAKE SURE SURFACE OF GUTTER SPLICE IS CLEAN, DRY, AND FREE OF ANY DIRT/DEBRIS

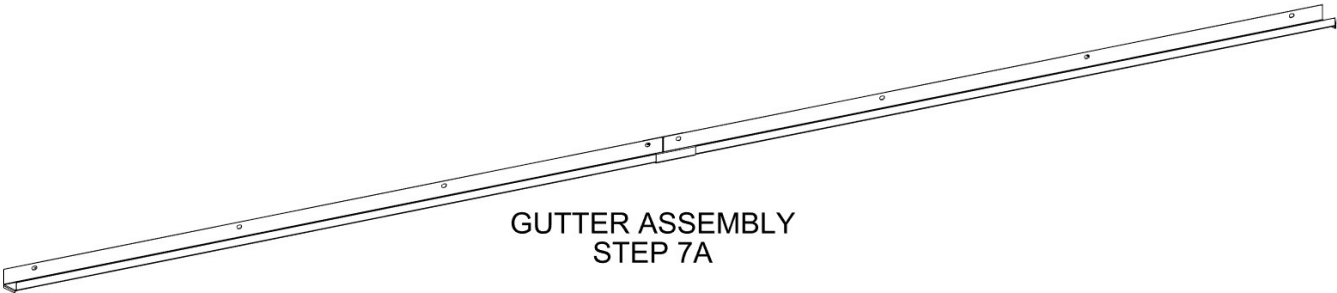


NOTE: GUTTER ENDS WILL HAVE A BOTTOM FLANGE



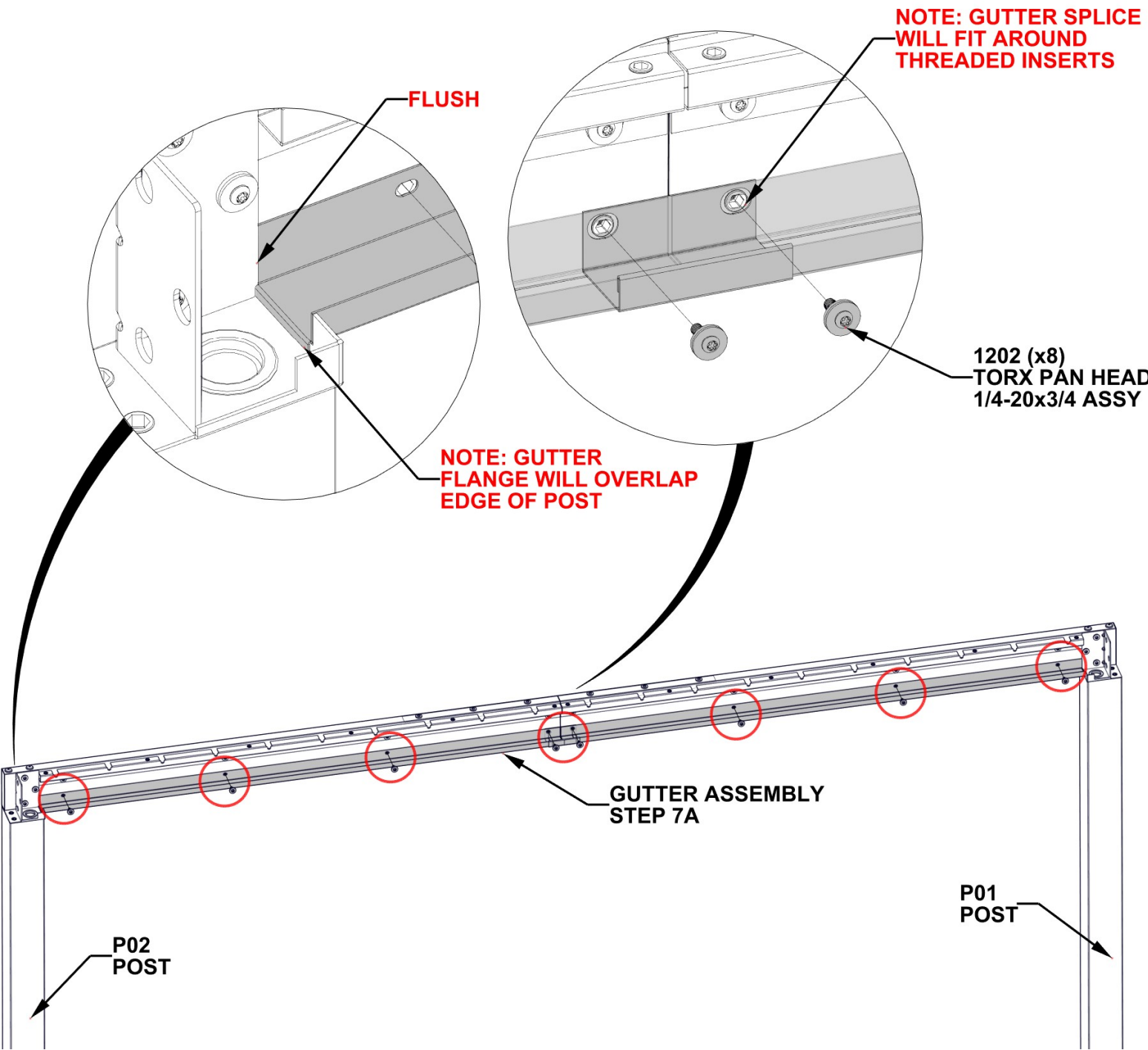
# STEP 7B - GUTTER ATTACHMENT

| QTY | PART NUMBER | DESCRIPTION                   |
|-----|-------------|-------------------------------|
| 8   | H101202     | TORX PAN HEAD 1/4-20x3/4 ASSY |



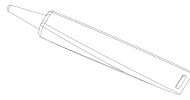
GUTTER ASSEMBLY  
STEP 7A

- WITH AT LEAST TWO PEOPLE ATTACH GUTTER ASSEMBLY FROM PREVIOUS STEP TO BEAM.
- MAKE SURE ENDS OF GUTTER SIT ON TOP SURFACE OF EACH POST BRACKET.



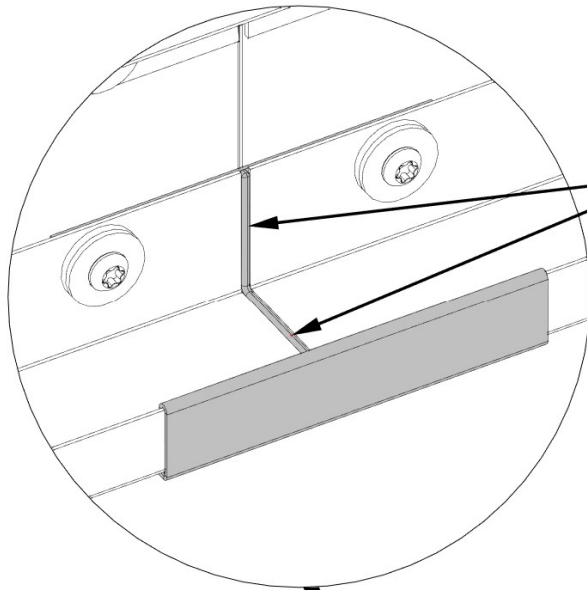


## STEP 7C - GUTTER ATTACHMENT

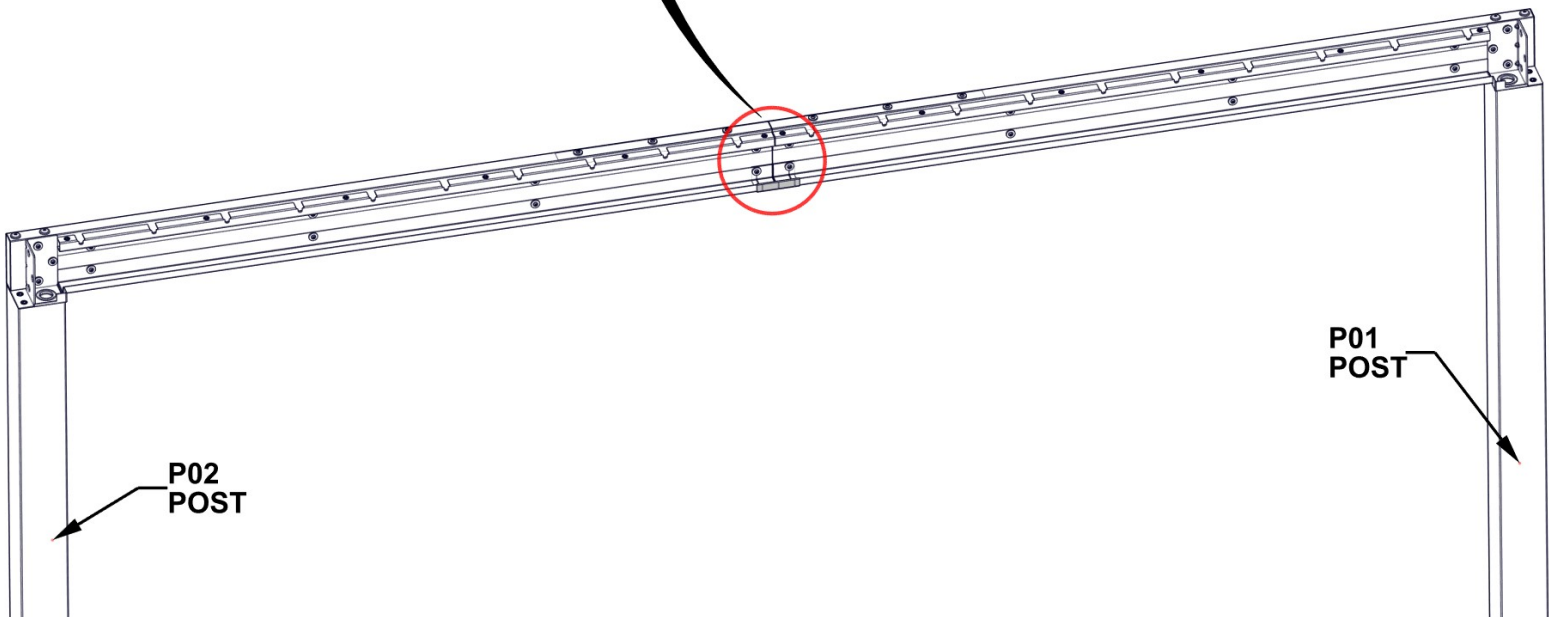


A6P00796 SILICONE  
(x1)

- **APPLY A FINE BEAD OF SILICONE ALONG INSIDE SURFACE OF GUTTER WHERE TWO GUTTER PIECES MEET.**
- **SMOOTH SILICONE ALONG SEAM, WIPING EXCESS USING A RAG OR PAPER TOWEL**
- **GLOVES ARE RECOMMENDED WHEN APPLYING SILICONE.**
- **MAKE SURE SURFACE OF GUTTER IS CLEAN, DRY, AND FREE OF ANY DIRT/DEBRIS**

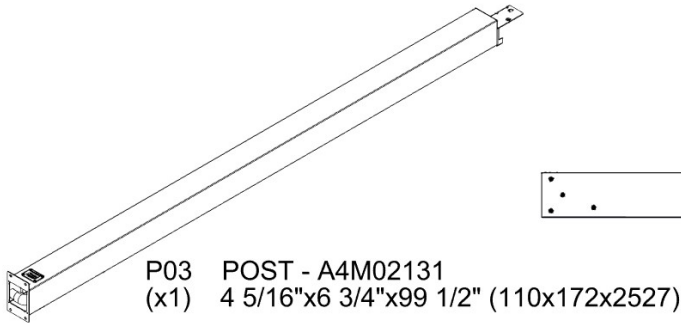


**NOTE: APPLY A FINE  
BEAD OF SILICONE  
ALONG INSIDE SEAM  
OF GUTTER**

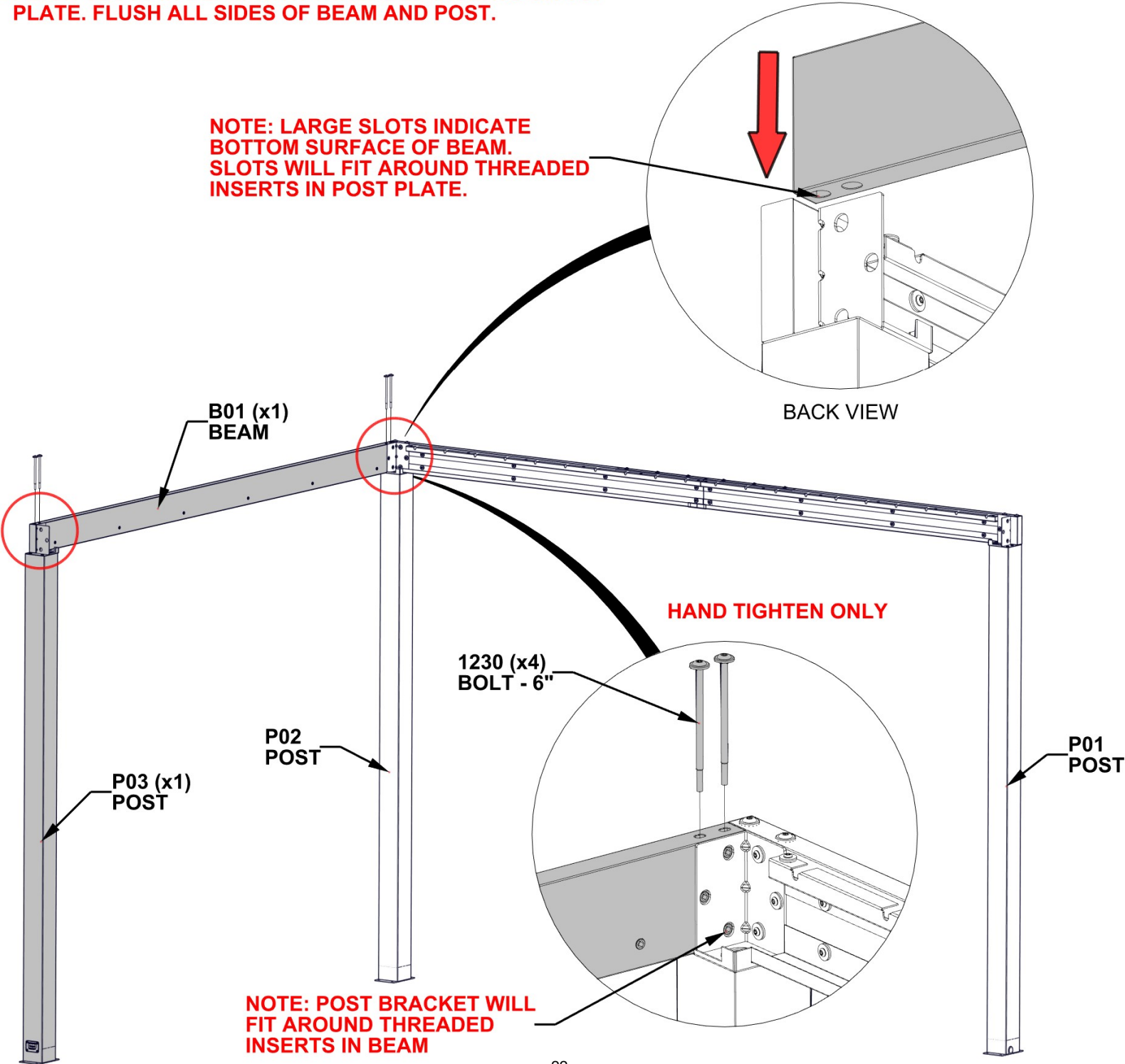


# STEP 8A - FRAME ASSEMBLY

| QTY | PART NUMBER | DESCRIPTION         |
|-----|-------------|---------------------|
| 4   | H101230     | BOLT WH 5/16x6 S.S. |



- WITH AT LEAST TWO EXTRA PEOPLE, ATTACH B01 BEAM TO P02 AND P03 POST.
- ALIGN SLOTS IN BEAM WITH THREADED INSERTS ON TOP PLATE. FLUSH ALL SIDES OF BEAM AND POST.



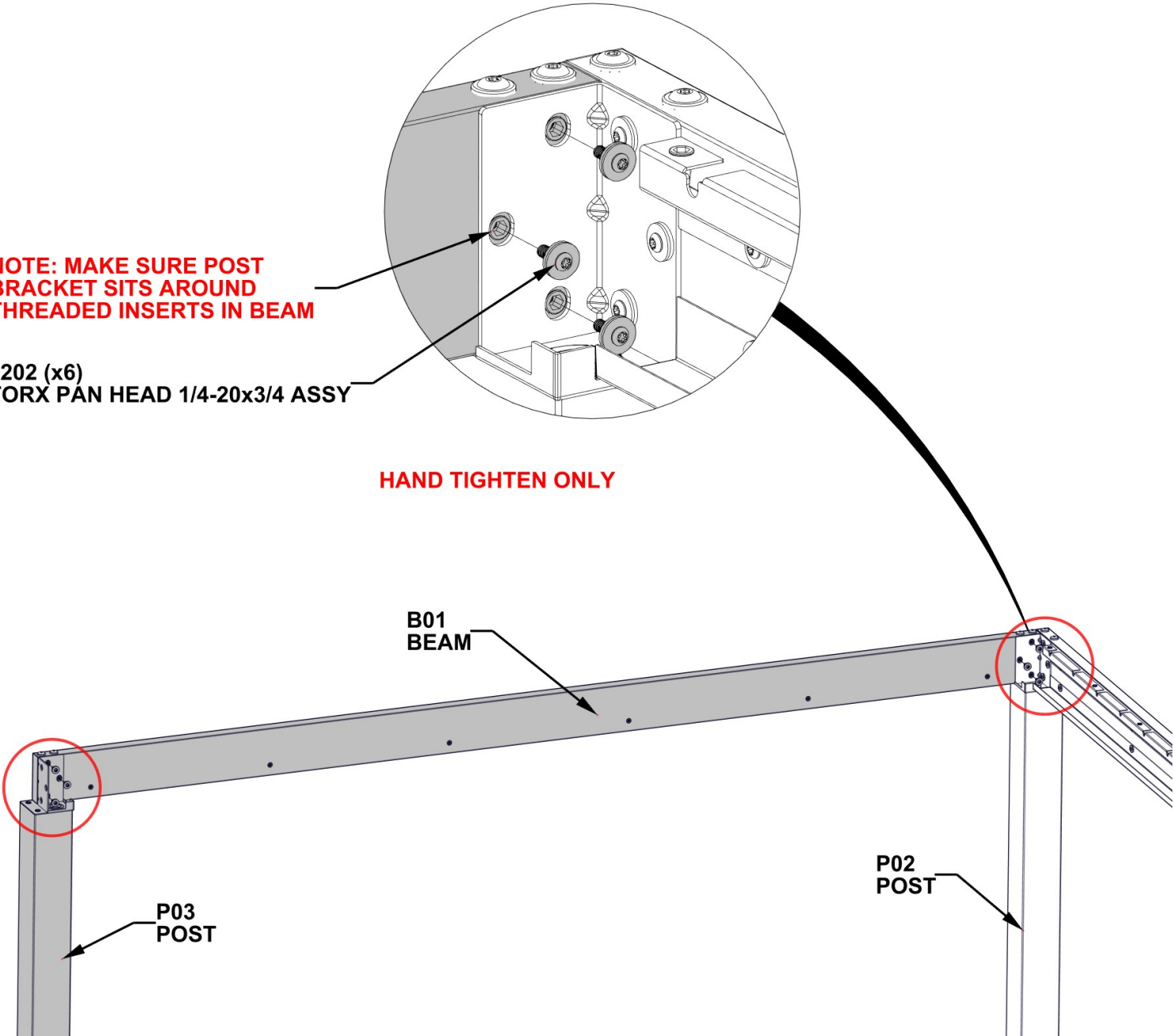
# STEP 8B - FRAME ASSEMBLY

| QTY | PART NUMBER | DESCRIPTION                   |
|-----|-------------|-------------------------------|
| 6   | H101202     | TORX PAN HEAD 1/4-20x3/4 ASSY |

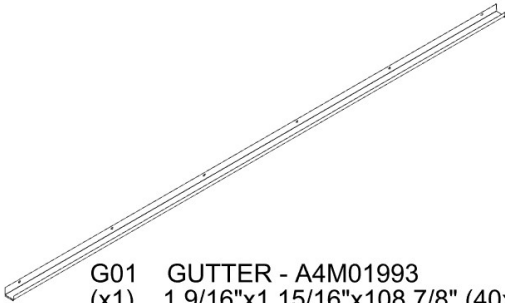
NOTE: MAKE SURE POST  
BRACKET SITS AROUND  
THREADED INSERTS IN BEAM

1202 (x6)  
TORX PAN HEAD 1/4-20x3/4 ASSY

HAND TIGHTEN ONLY



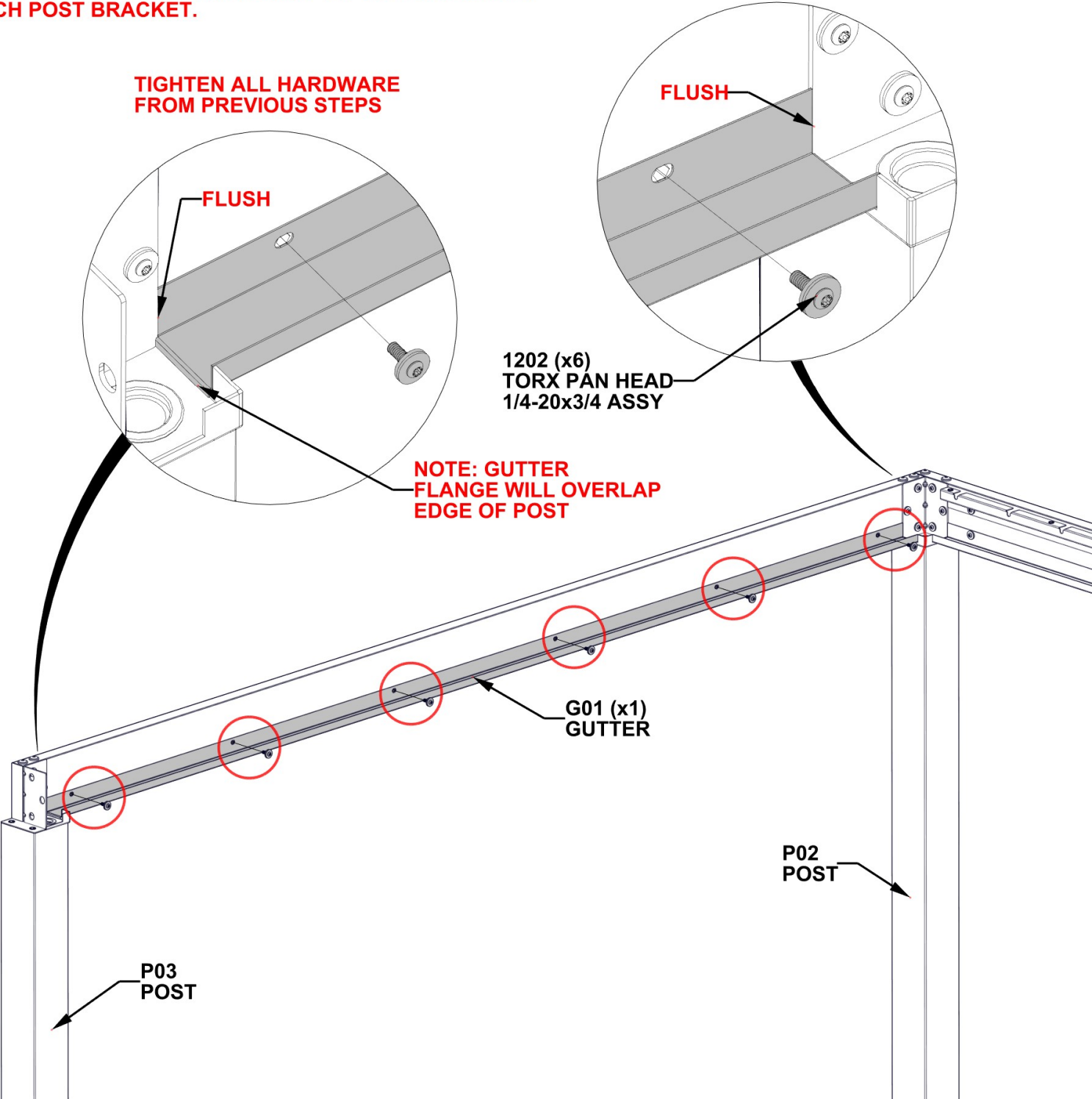
# STEP 9 - GUTTER ATTACHMENT



G01 GUTTER - A4M01993  
(x1) 1 9/16"x1 15/16"x108 7/8" (40x50x2765)

| QTY | PART NUMBER | DESCRIPTION                   |
|-----|-------------|-------------------------------|
| 6   | H101202     | TORX PAN HEAD 1/4-20x3/4 ASSY |

- WITH AN ADDITIONAL PERSON, ATTACH GUTTER TO BEAM.
- MAKE SURE ENDS OF GUTTER SIT ON TOP SURFACE OF EACH POST BRACKET.





## STEP 10A - FRAME ASSEMBLY

| QTY | PART NUMBER | DESCRIPTION         |
|-----|-------------|---------------------|
| 4   | H101230     | BOLT WH 5/16x6 S.S. |



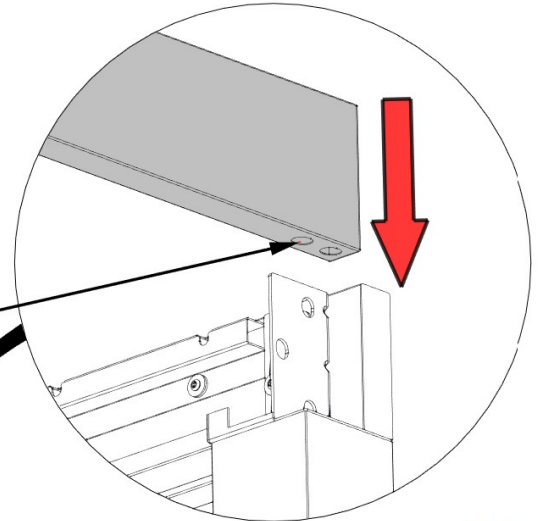
P02 POST - A4M01984  
(x1) 4 5/16"x6 3/4"x99 1/2" (110x172x2527)



B01 BEAM - A4M01986  
(x1) 1 7/16"x5 1/4"x114 1/2" (36x134x2910)

- WITH AT LEAST TWO EXTRA PEOPLE, ATTACH B01 BEAM TO P02 AND P01 POST.
- ALIGN SLOTS IN BEAM WITH THREADED INSERTS ON TOP PLATE. FLUSH ALL SIDES OF BEAM AND POST.

**NOTE: LARGE SLOTS INDICATE  
BOTTOM SURFACE OF BEAM.  
SLOTS WILL FIT AROUND THREADED  
INSERTS IN POST PLATE.**



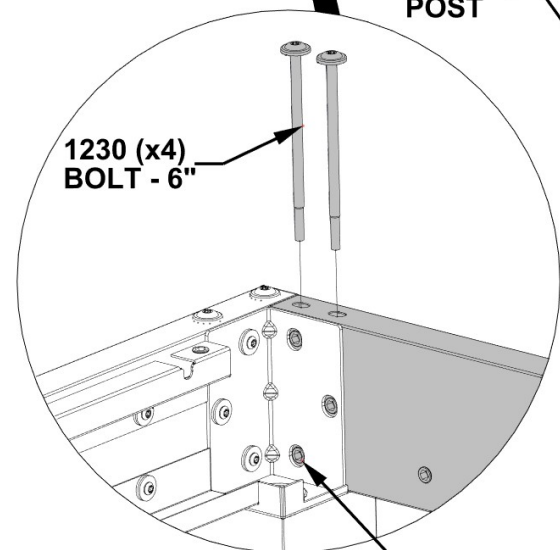
BACK VIEW

**\_B01 (x1)  
BEAM**

**P01**  
**POST**

**HAND TIGHTEN ONLY**

P02 (x1)\_  
POST



1230 (x4)  
BOLT - 6"

**NOTE: POST BRACKET WILL  
FIT AROUND THREADED  
INSERTS IN BEAM**

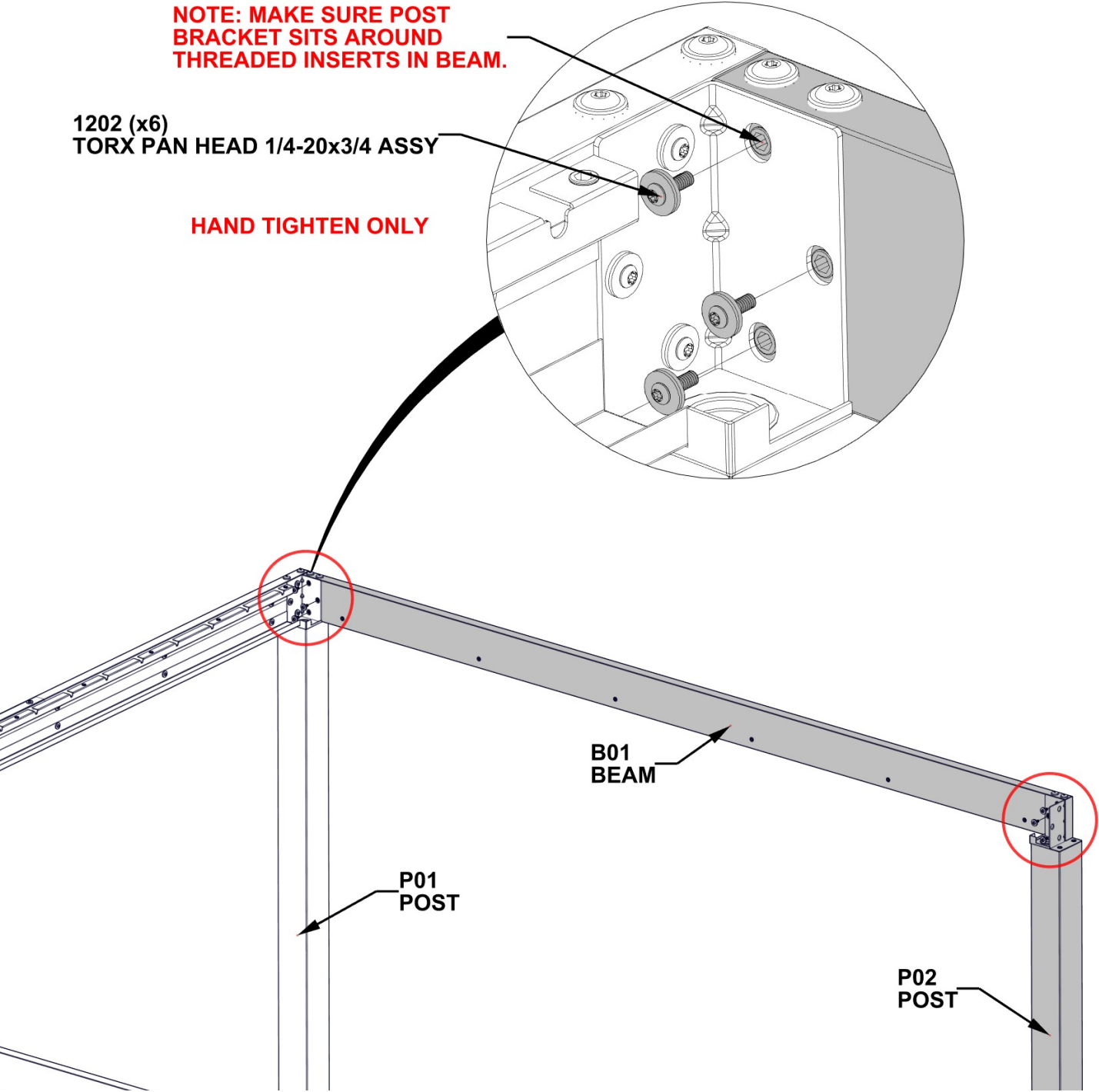
# STEP 10B - FRAME ASSEMBLY

| QTY | PART NUMBER | DESCRIPTION                   |
|-----|-------------|-------------------------------|
| 6   | H101202     | TORX PAN HEAD 1/4-20x3/4 ASSY |

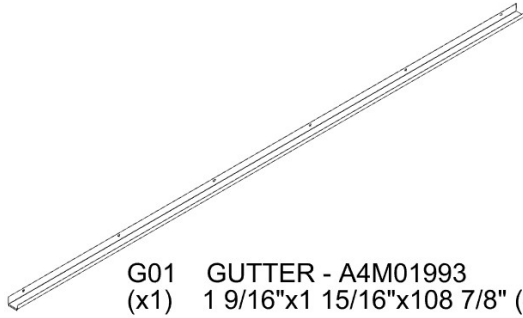
NOTE: MAKE SURE POST  
BRACKET SITS AROUND  
THREADED INSERTS IN BEAM.

1202 (x6)  
TORX PAN HEAD 1/4-20x3/4 ASSY

HAND TIGHTEN ONLY



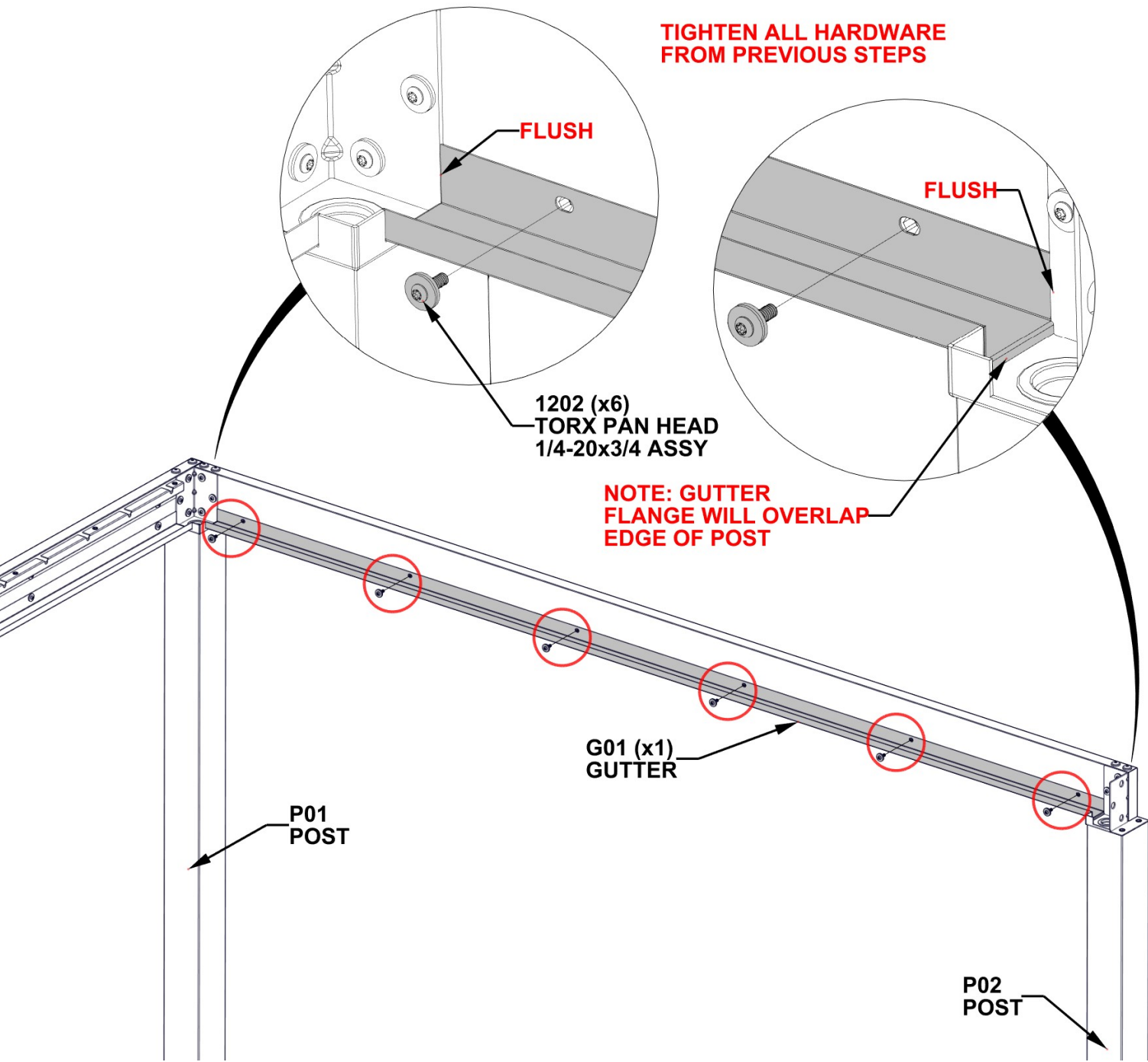
# STEP 11 - GUTTER ATTACHMENT



| QTY | PART NUMBER | DESCRIPTION                   |
|-----|-------------|-------------------------------|
| 6   | H101202     | TORX PAN HEAD 1/4-20x3/4 ASSY |

G01 GUTTER - A4M01993  
(x1) 1 9/16"x1 15/16"x108 7/8" (40x50x2765)

- WITH AN ADDITIONAL PERSON, ATTACH GUTTER TO BEAM.
- MAKE SURE ENDS OF GUTTER SIT ON TOP SURFACE OF EACH POST BRACKET.



# STEP 12 - BEAM ASSEMBLY

| QTY | PART NUMBER | DESCRIPTION                   |
|-----|-------------|-------------------------------|
| 6   | H101202     | TORX PAN HEAD 1/4-20x3/4 ASSY |

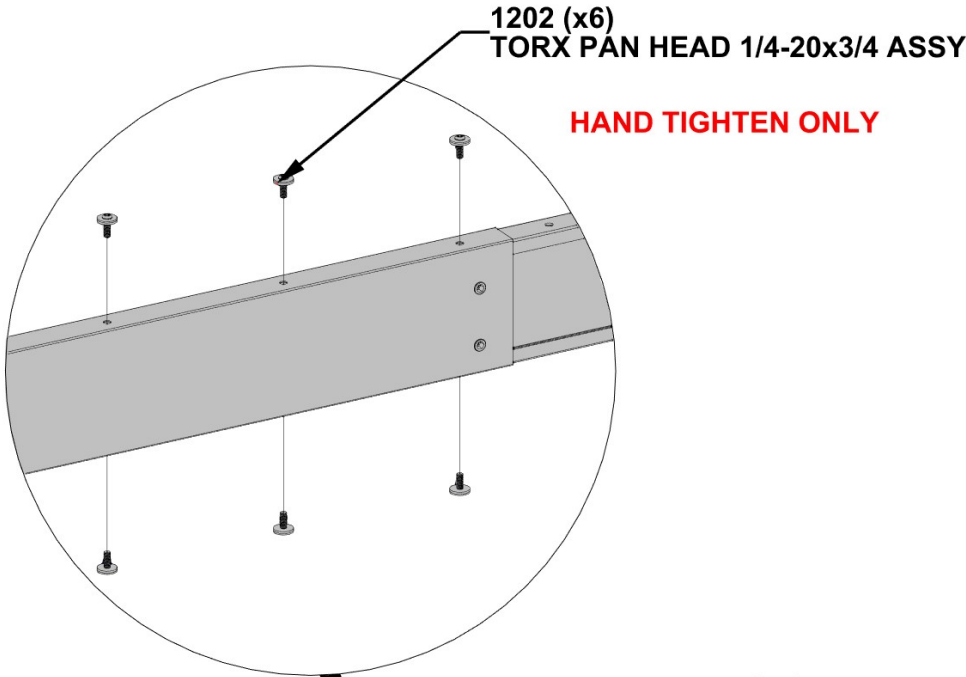


B03 BEAM - A4M02862  
(x1) 1 7/16"x5 1/4"x70 1/4" (36x134x1784)



J1 SPLICE BRACKET - A4M02230  
(x1) 1 5/16"x5 3/16"x39 3/8" (33.2x131.2x1000)

- BEAM AND SPLICE MUST BE ORIENTED  
AS SHOWN BELOW. SLIDE J1 INTO B03  
AND LINE UP THREE HOLES TOP AND BOTTOM.

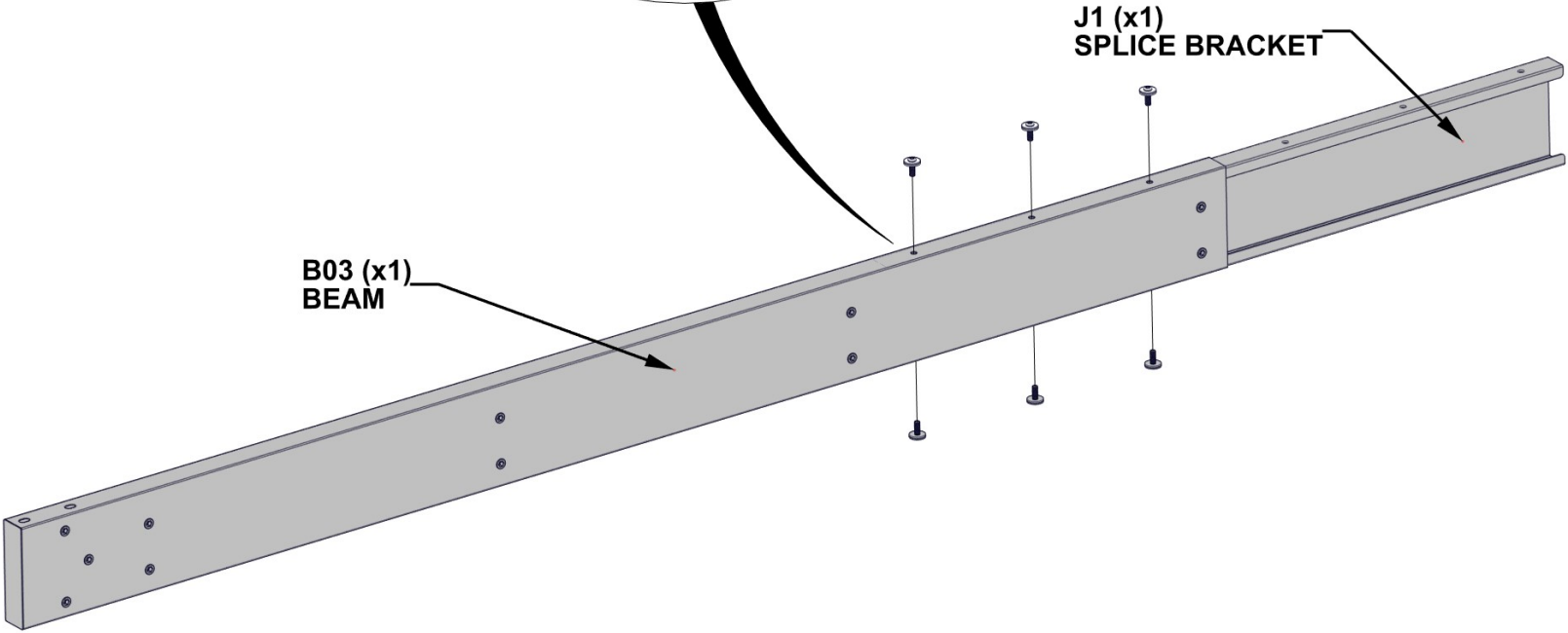


1202 (x6)  
TORX PAN HEAD 1/4-20x3/4 ASSY

HAND TIGHTEN ONLY

J1 (x1)  
SPLICE BRACKET

B03 (x1)  
BEAM





# STEP 13 - BEAM ASSEMBLY

| QTY | PART NUMBER | DESCRIPTION                   |
|-----|-------------|-------------------------------|
| 6   | H101202     | TORX PAN HEAD 1/4-20x3/4 ASSY |



B04 BEAM - A4M02863  
(x1) 1 7/16"x5 1/4"x70 1/4" (36x134x1784)

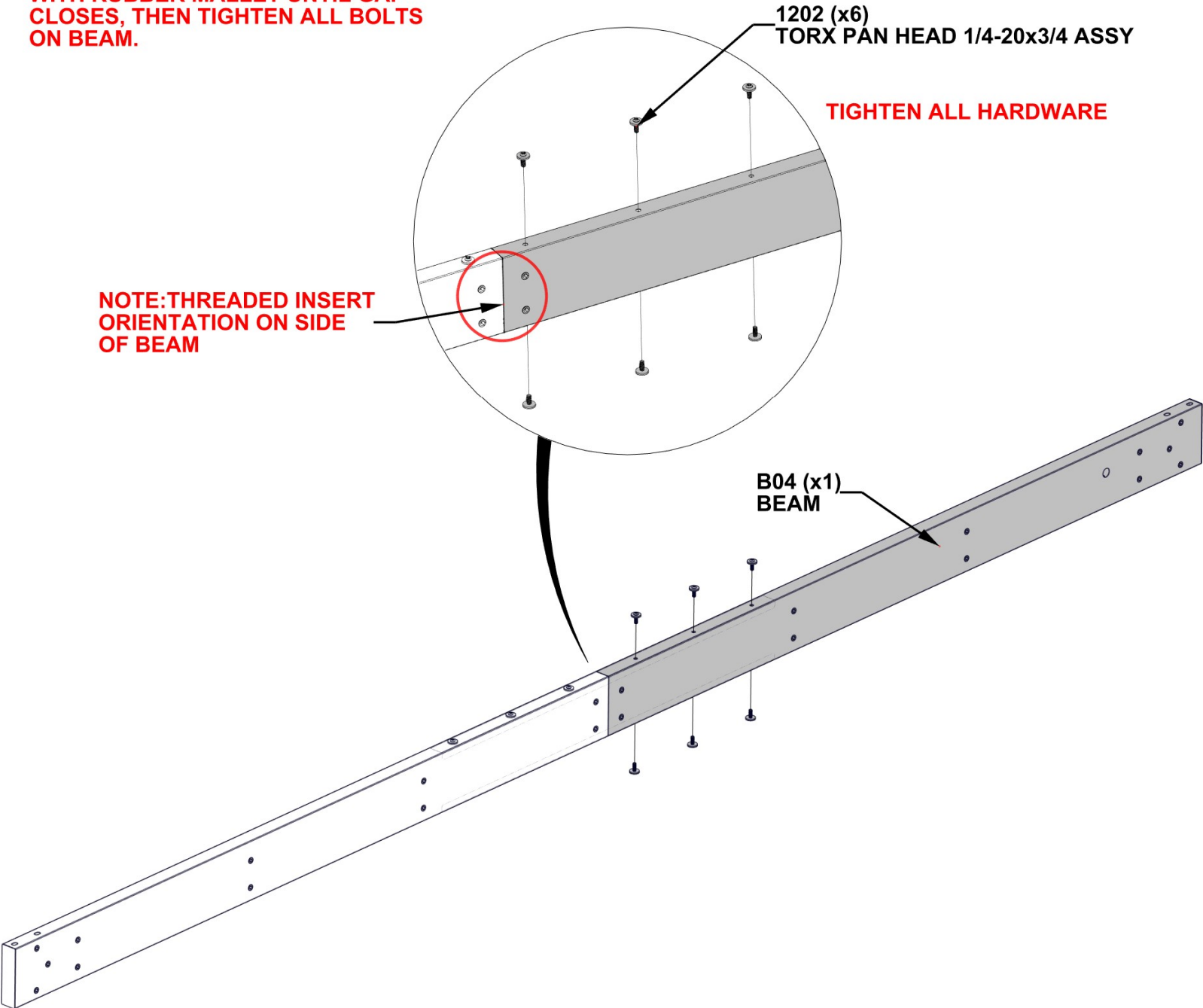
- SLIDE B04 INTO SPLICE BRACKET.  
GENTLY TAP ENDS OF ASSEMBLY  
WITH RUBBER Mallet UNTIL GAP  
CLOSES, THEN TIGHTEN ALL BOLTS  
ON BEAM.

1202 (x6)  
TORX PAN HEAD 1/4-20x3/4 ASSY

TIGHTEN ALL HARDWARE

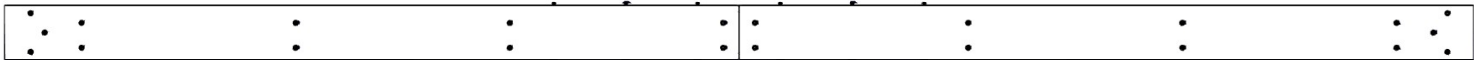
NOTE: THREADED INSERT  
ORIENTATION ON SIDE  
OF BEAM

B04 (x1)  
BEAM



# STEP 14A - FRAME ASSEMBLY

| QTY | PART NUMBER | DESCRIPTION         |
|-----|-------------|---------------------|
| 4   | H101230     | BOLT WH 5/16x6 S.S. |



BEAM ASSEMBLY  
STEP 12 - 13

- WITH AT LEAST TWO EXTRA PEOPLE, ATTACH BEAM ASSEMBLY FROM PREVIOUS STEPS TO P02 AND P03 POST.
- ALIGN SLOTS IN BEAM WITH THREADED INSERTS ON TOP PLATE. FLUSH ALL SIDES OF BEAM AND POST.

HAND TIGHTEN ONLY 1230 (x4)  
BOLT - 6"

NOTE: LARGE SLOTS INDICATE  
BOTTOM SURFACE OF BEAM.  
SLOTS WILL FIT AROUND THREADED  
INSERTS IN POST PLATE.

FLUSH

NOTE: POST BRACKET WILL  
FIT AROUND THREADED  
INSERTS IN BEAM

BACK VIEW

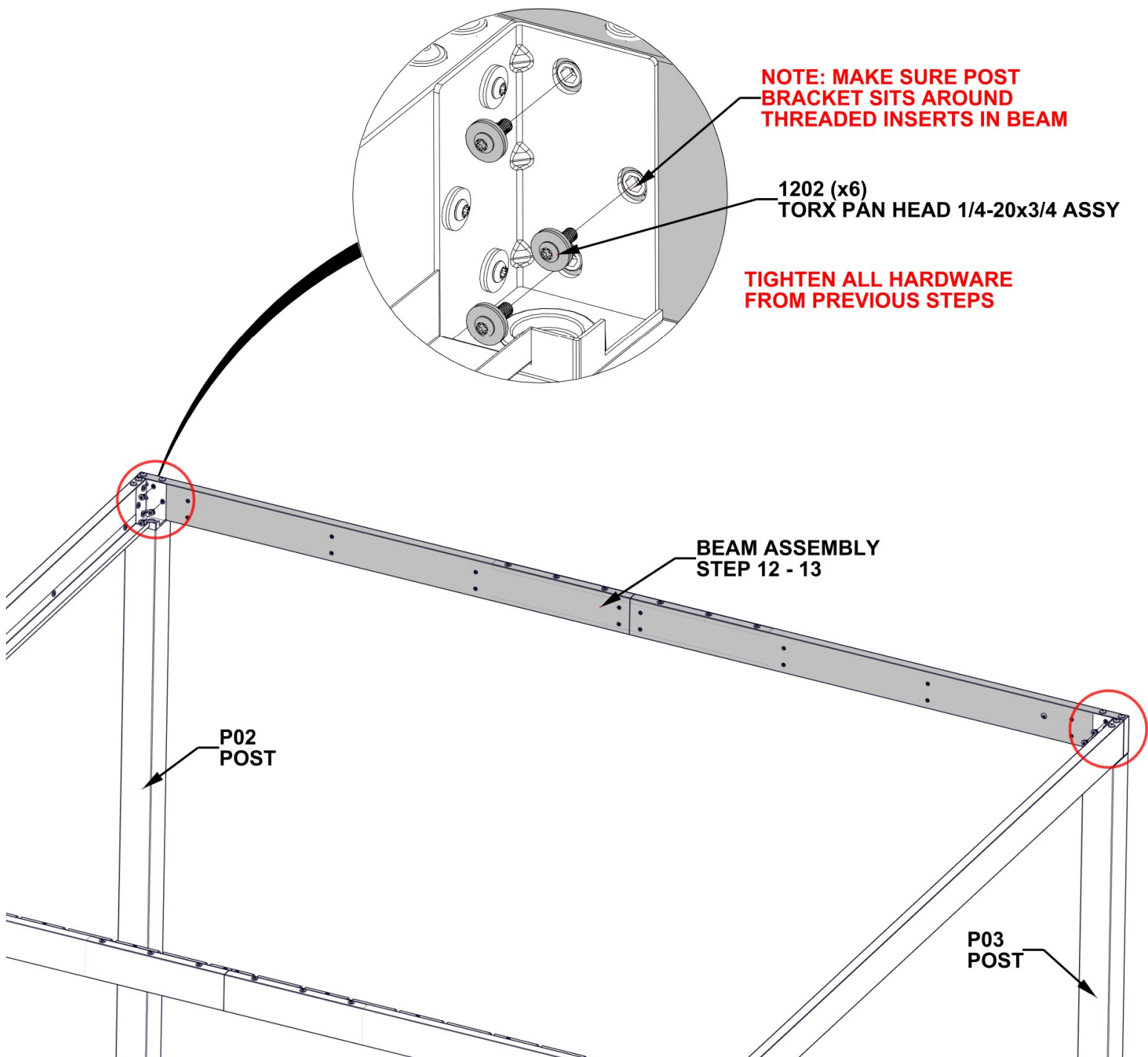
BEAM ASSEMBLY  
STEP 12 - 13

P02  
POST

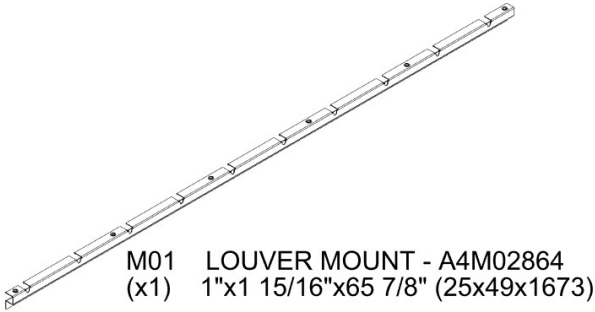
P03  
POST

# STEP 14B - FRAME ASSEMBLY

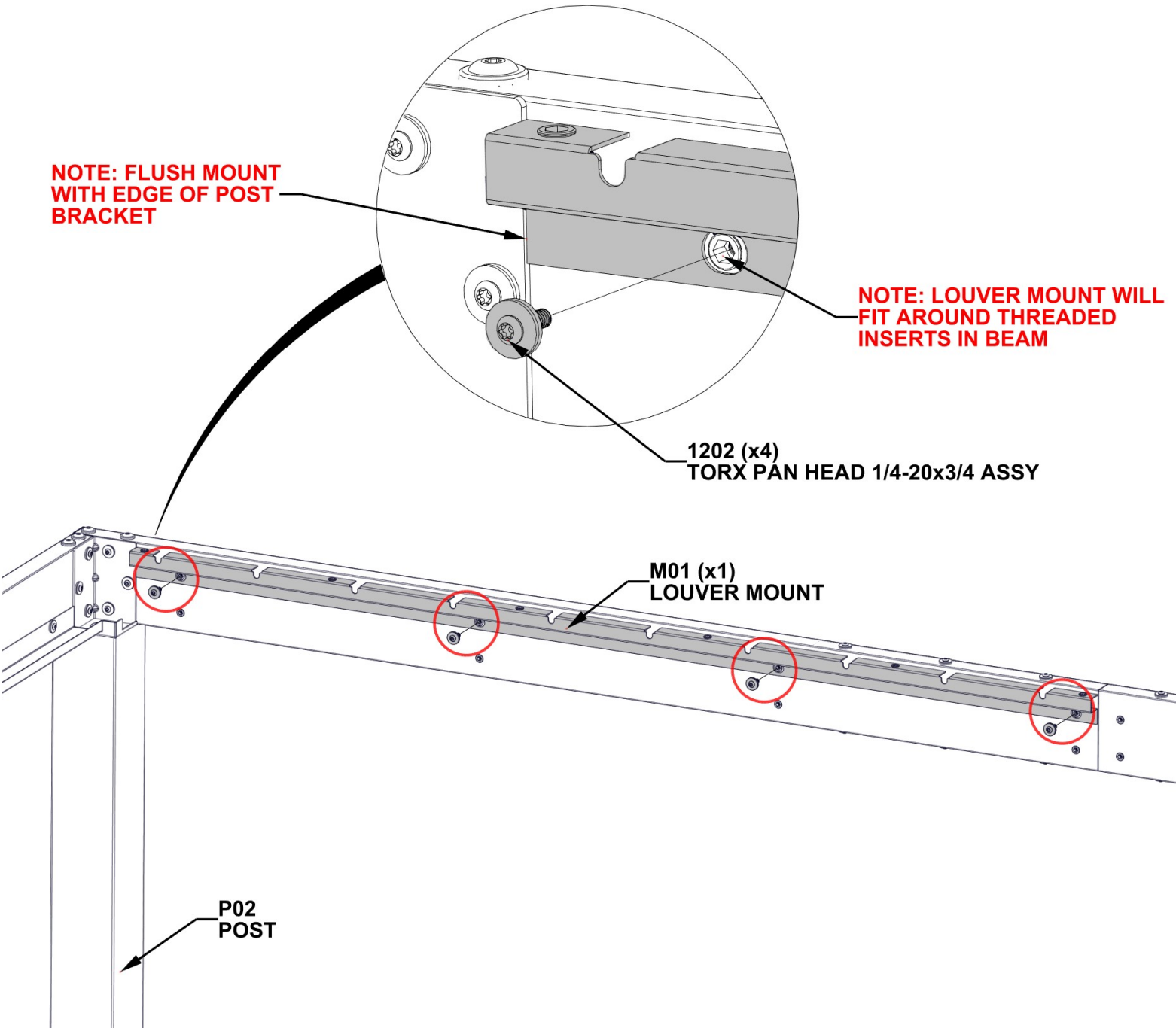
| QTY | PART NUMBER | DESCRIPTION                   |
|-----|-------------|-------------------------------|
| 6   | H101202     | TORX PAN HEAD 1/4-20x3/4 ASSY |



# STEP 15 - LOUVER MOUNT ATTACHMENT

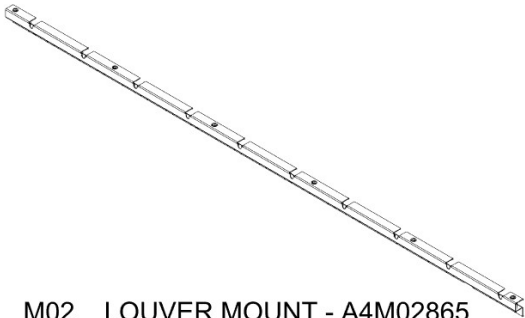


| QTY | PART NUMBER | DESCRIPTION                   |
|-----|-------------|-------------------------------|
| 4   | H101202     | TORX PAN HEAD 1/4-20x3/4 ASSY |



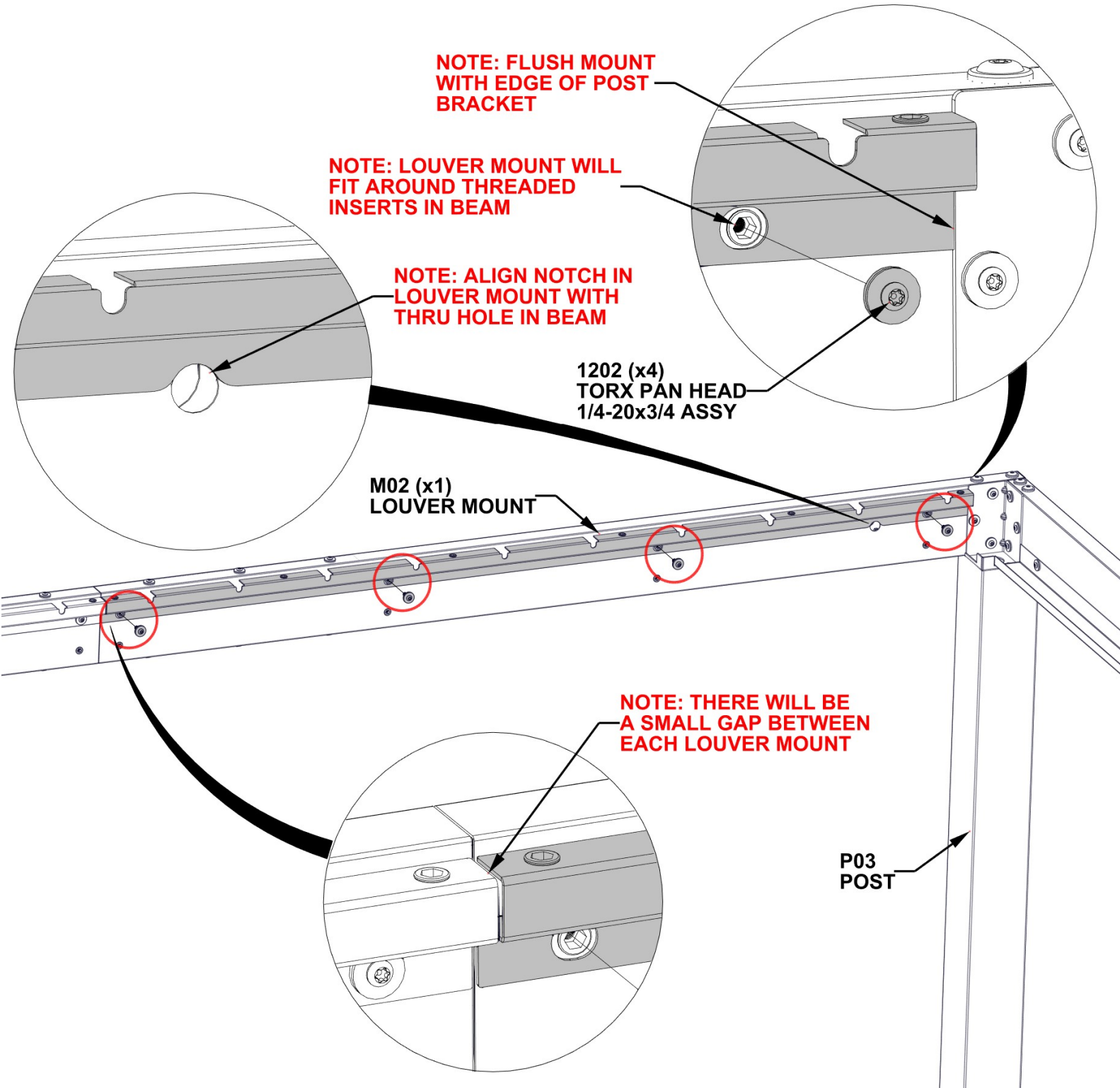


# STEP 16 - LOUVER MOUNT ATTACHMENT

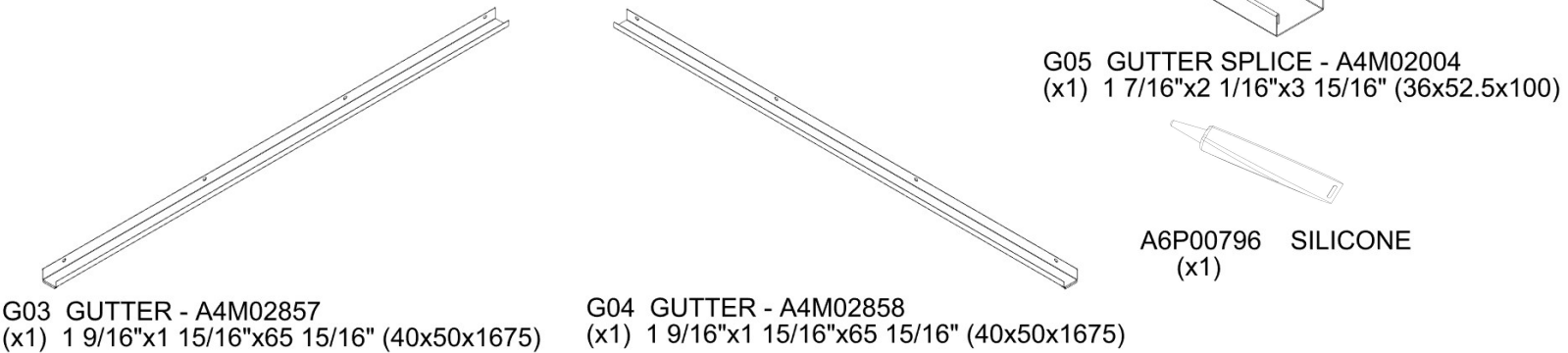


| QTY | PART NUMBER | DESCRIPTION                   |
|-----|-------------|-------------------------------|
| 4   | H101202     | TORX PAN HEAD 1/4-20x3/4 ASSY |

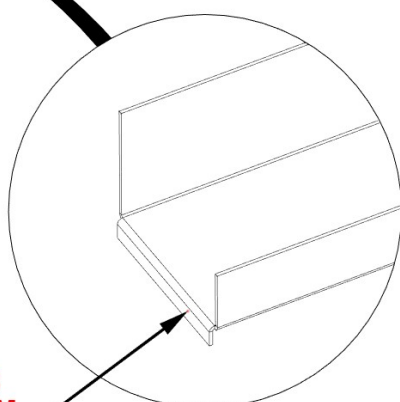
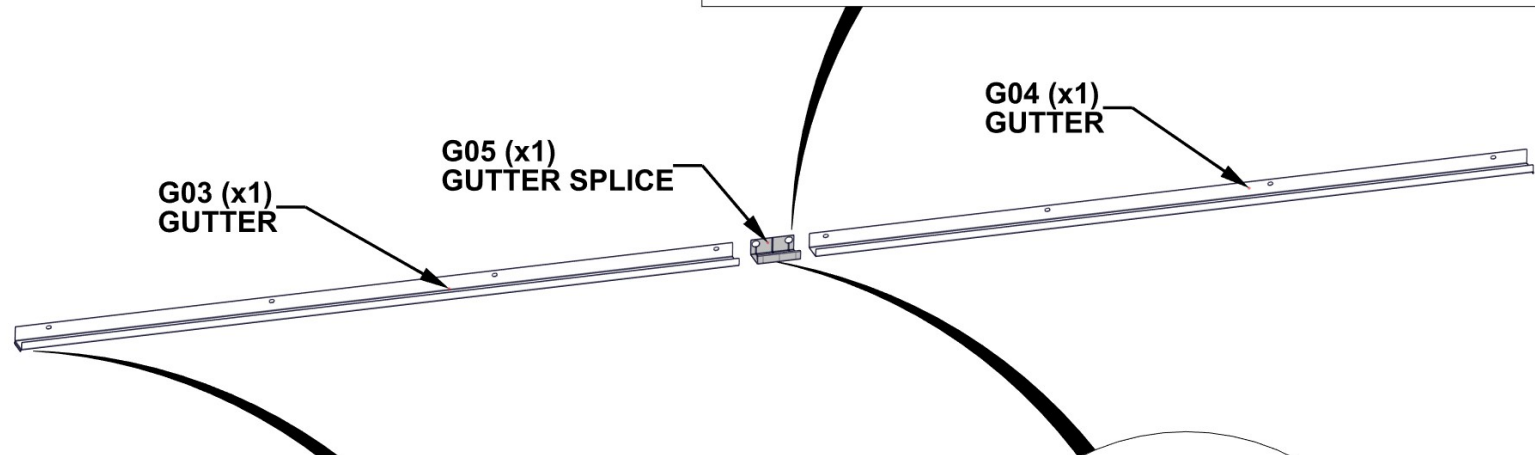
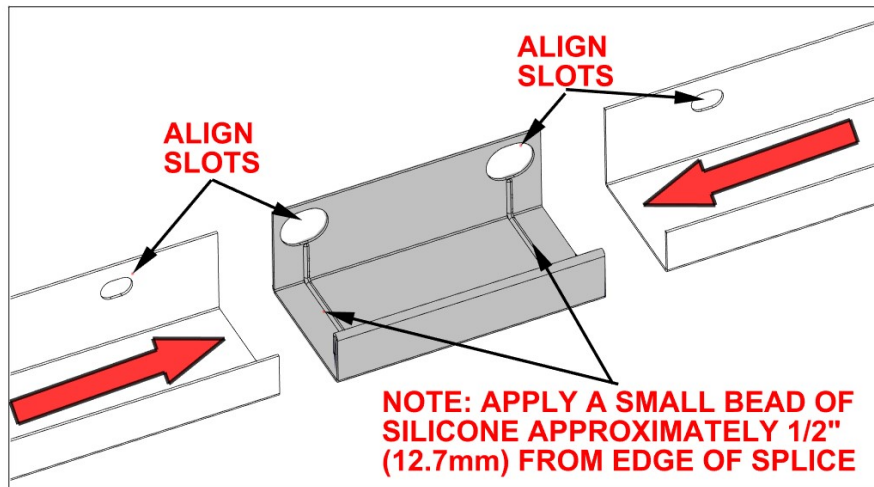
M02 LOUVER MOUNT - A4M02865  
(x1) 1"x1 15/16"x65 7/8" (25x49x1673)



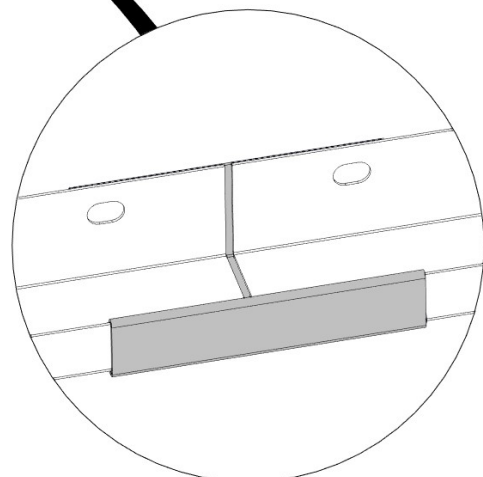
# STEP 17A - GUTTER ASSEMBLY



- MEASURE APPROXIMATELY 1/2" [12.7mm] FROM EACH END OF GUTTER SPLICE AND APPLY A FINE BEAD OF SILICONE.
- SLIDE BOTH G03 AND G04 GUTTERS INTO SPLICE UNTIL ENDS ARE ALMOST TOUCHING. WIPE EXCESS SILICONE USING A RAG OR PAPER TOWEL.
- GLOVES ARE RECOMMENDED WHEN APPLYING SILICONE
- MAKE SURE SURFACE OF GUTTER SPLICE IS CLEAN, DRY, AND FREE OF ANY DIRT/DEBRIS

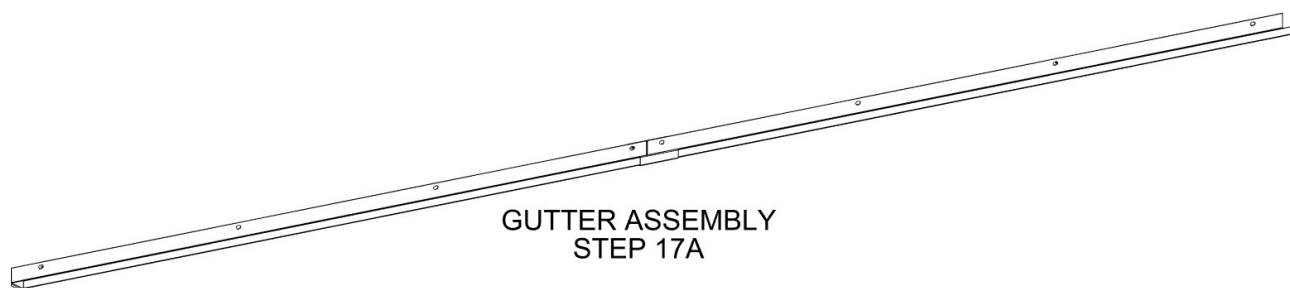


NOTE: GUTTER ENDS WILL HAVE A BOTTOM FLANGE

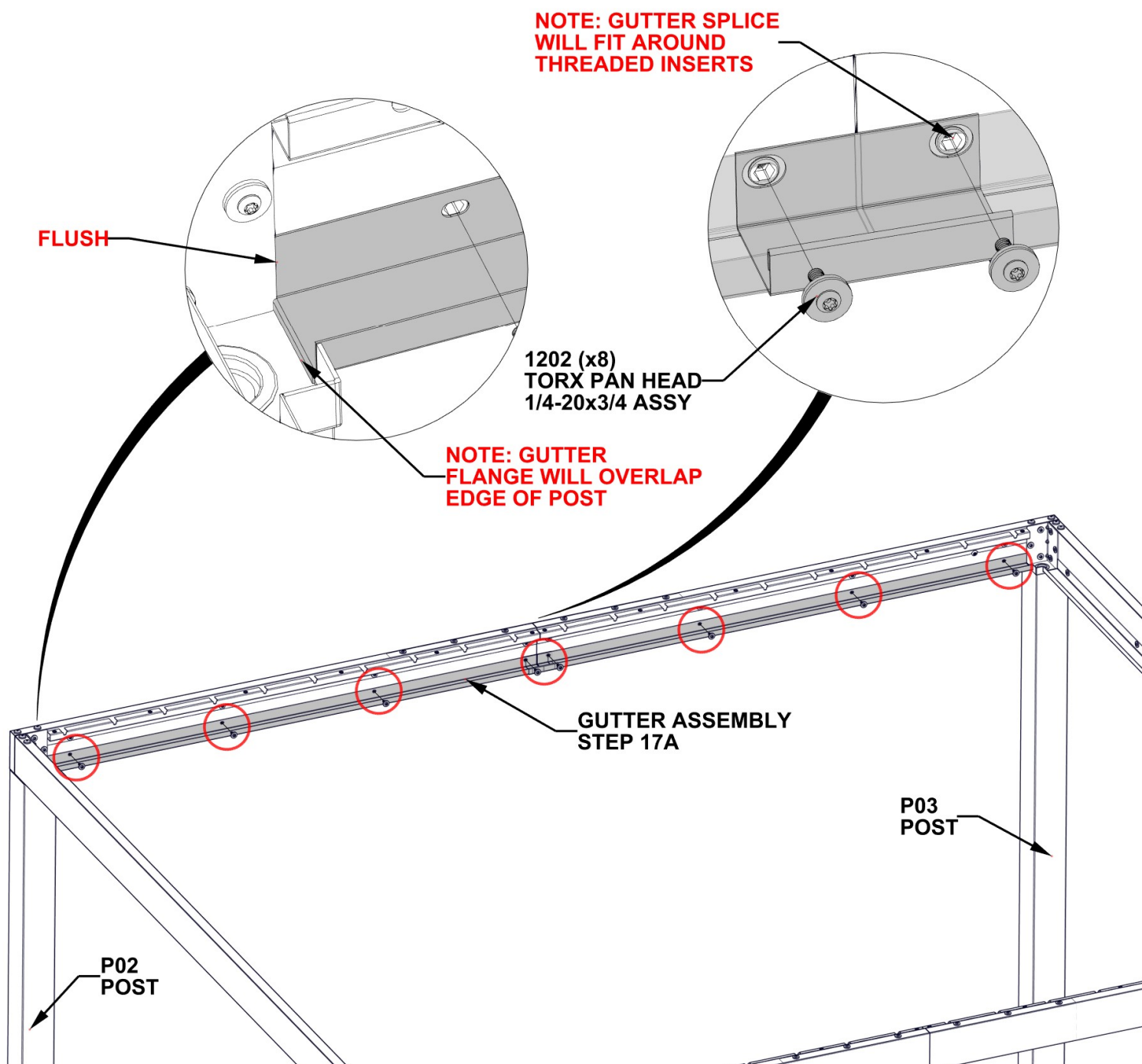


## STEP 17B - GUTTER ATTACHMENT

| QTY | PART NUMBER | DESCRIPTION                   |
|-----|-------------|-------------------------------|
| 8   | H101202     | TORX PAN HEAD 1/4-20x3/4 ASSY |

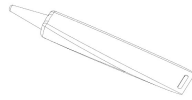


- WITH AT LEAST TWO PEOPLE ATTACH GUTTER ASSEMBLY FROM PREVIOUS STEP TO BEAM.
- MAKE SURE ENDS OF GUTTER SIT ON TOP SURFACE OF EACH POST BRACKET.



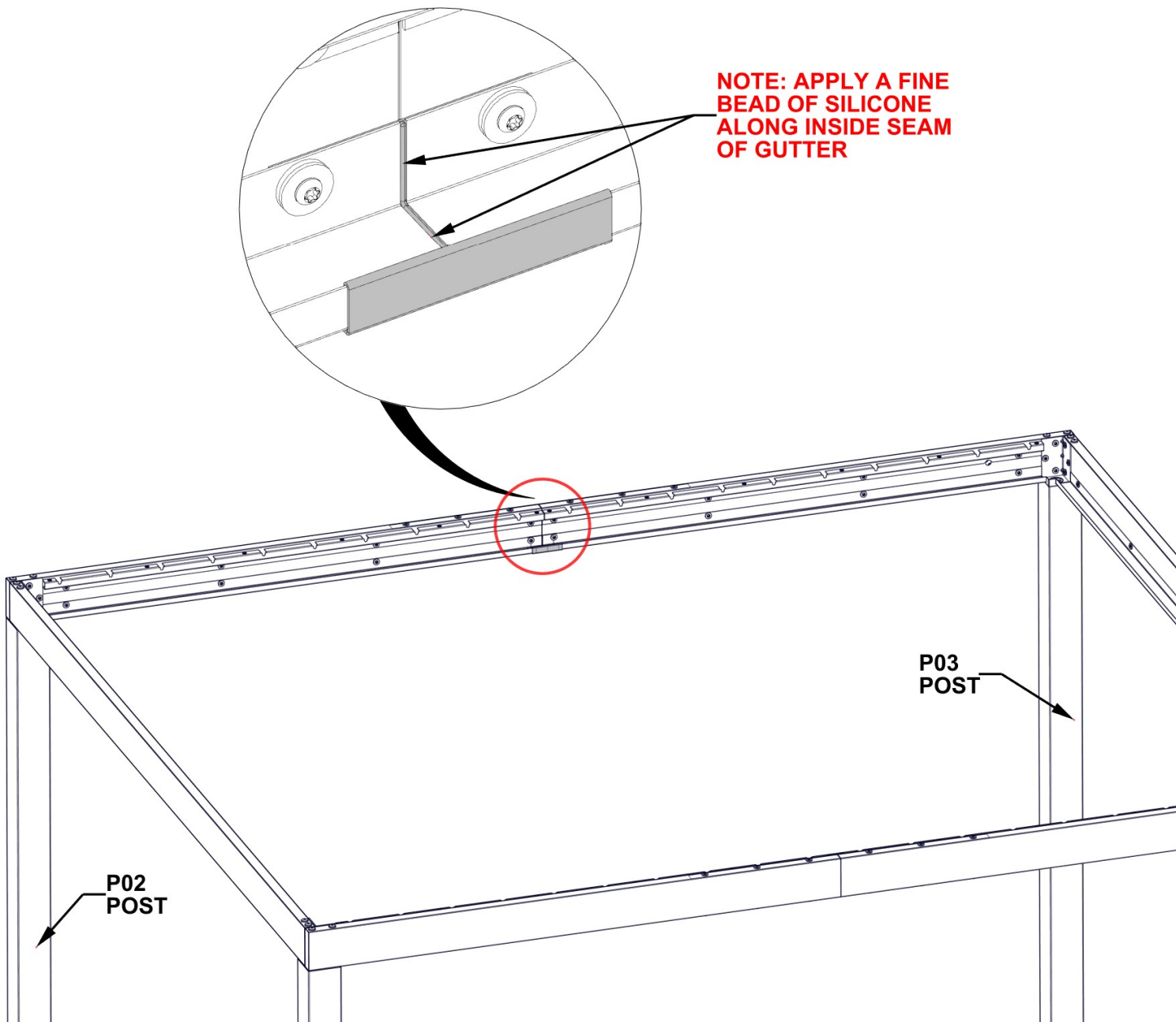


## STEP 17C - GUTTER ATTACHMENT



A6P00796 SILICONE  
(x1)

- APPLY A FINE BEAD OF SILICONE ALONG INSIDE SURFACE OF GUTTER WHERE TWO GUTTER PIECES MEET.
- SMOOTH SILICONE ALONG SEAM, WIPING EXCESS USING A RAG OR PAPER TOWEL
- GLOVES ARE RECOMMENDED WHEN APPLYING SILICONE.
- MAKE SURE SURFACE OF GUTTER IS CLEAN, DRY, AND FREE OF ANY DIRT/DEBRIS

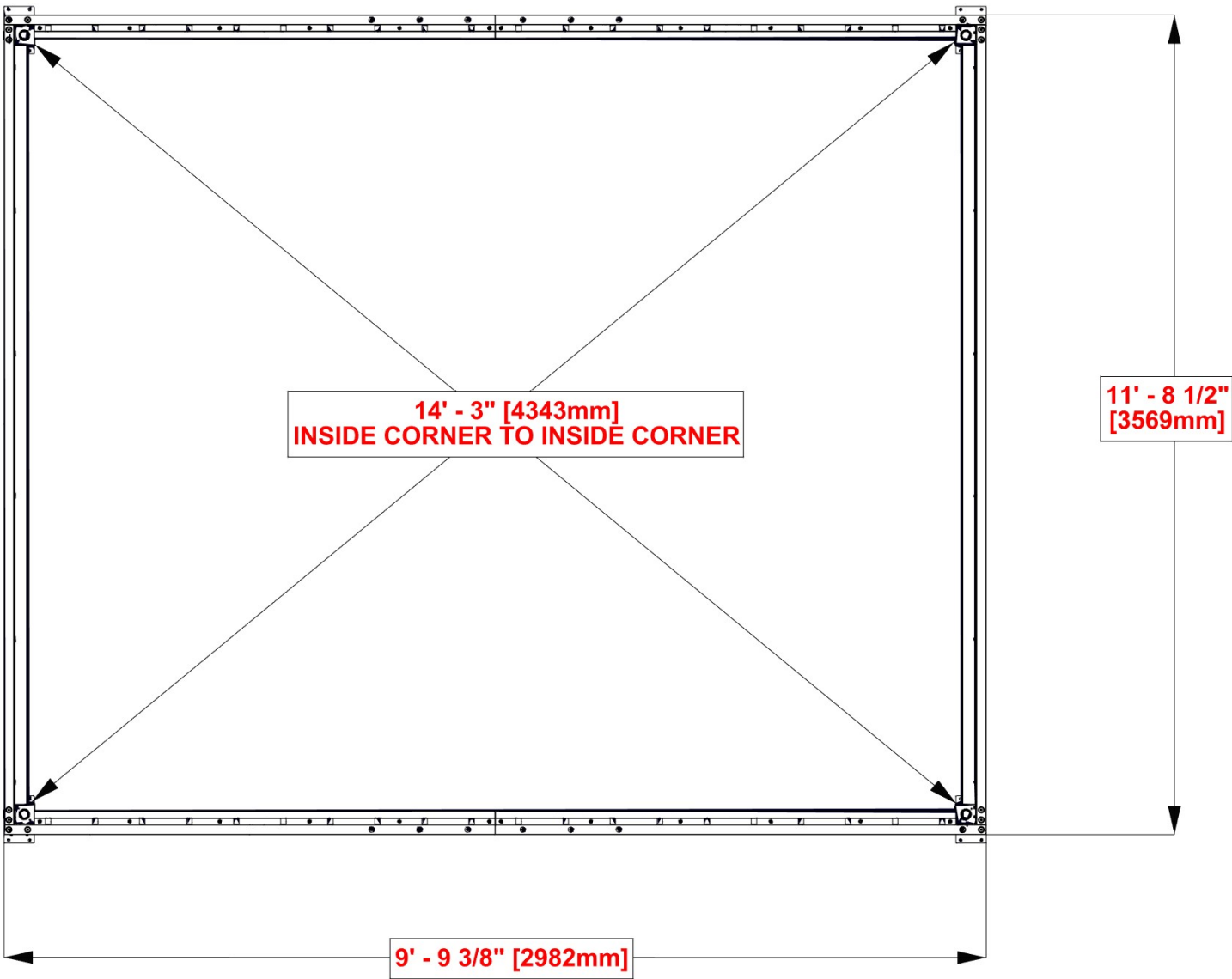




# STEP 18A - SQUARE STRUCTURE

- CRITICAL:**  
1. SQUARE ASSEMBLY BEFORE PROCEEDING TO NEXT STEPS.  
2. ONCE SQUARE, TIGHTEN ALL HARDWARE.

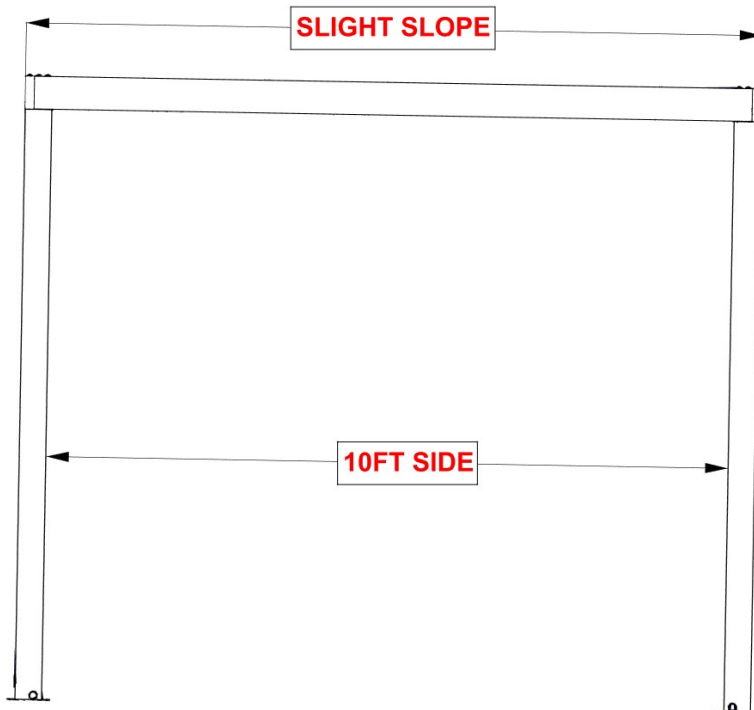
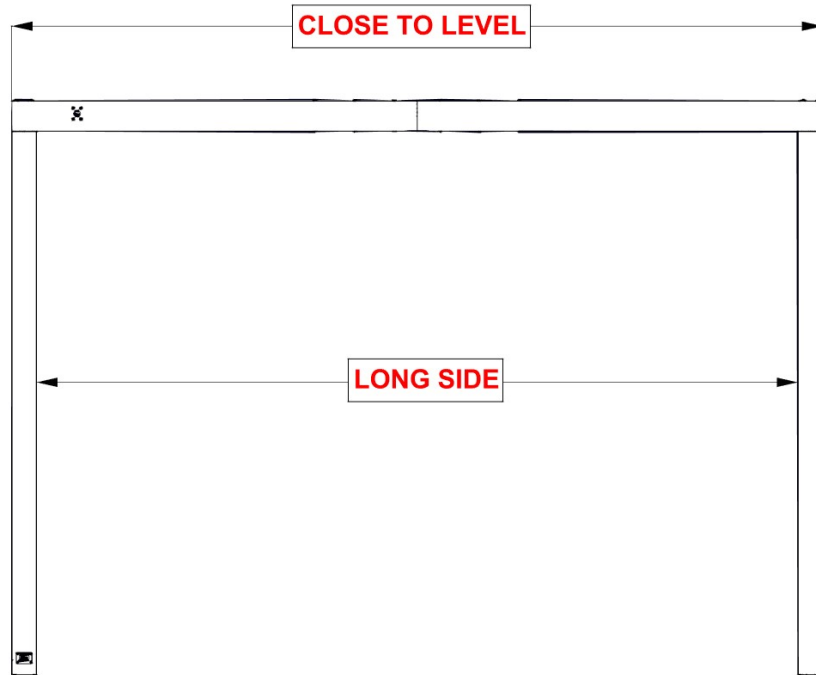
MEASUREMENTS TAKEN FROM OUTSIDE POST TO OUTSIDE POST OF STRUCTURE UNLESS NOTED OTHERWISE



## STEP 18B - POSITIONING THE STRUCTURE

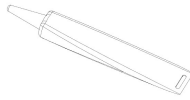
### CRITICAL:

- FOR YOUR PERGOLA TO DRAIN PROPERLY, THERE MUST BE A SLIGHT SLOPE ON THE 10FT SIDE RUNNING THE LENGTH OF THE LOUVER BLADES.
- IT IS RECOMMENDED THAT THE LONG SIDES ARE LEVEL OR CLOSE TO LEVEL.
- PLACE A LEVEL ON THE LONGER BEAMS TO CONFIRM THE LONG SIDES ARE CLOSE TO LEVEL.
- PLACE A LEVEL ON THE SHORT BEAMS (10FT) SIDE TO CONFIRM YOU HAVE A SLIGHT SLOPE IN ONE DIRECTION.



PLEASE CONTACT BACKYARD DISCOVERY CUSTOMER SERVICE  
IF HELP IS NEEDED POSITIONING YOUR STRUCTURE

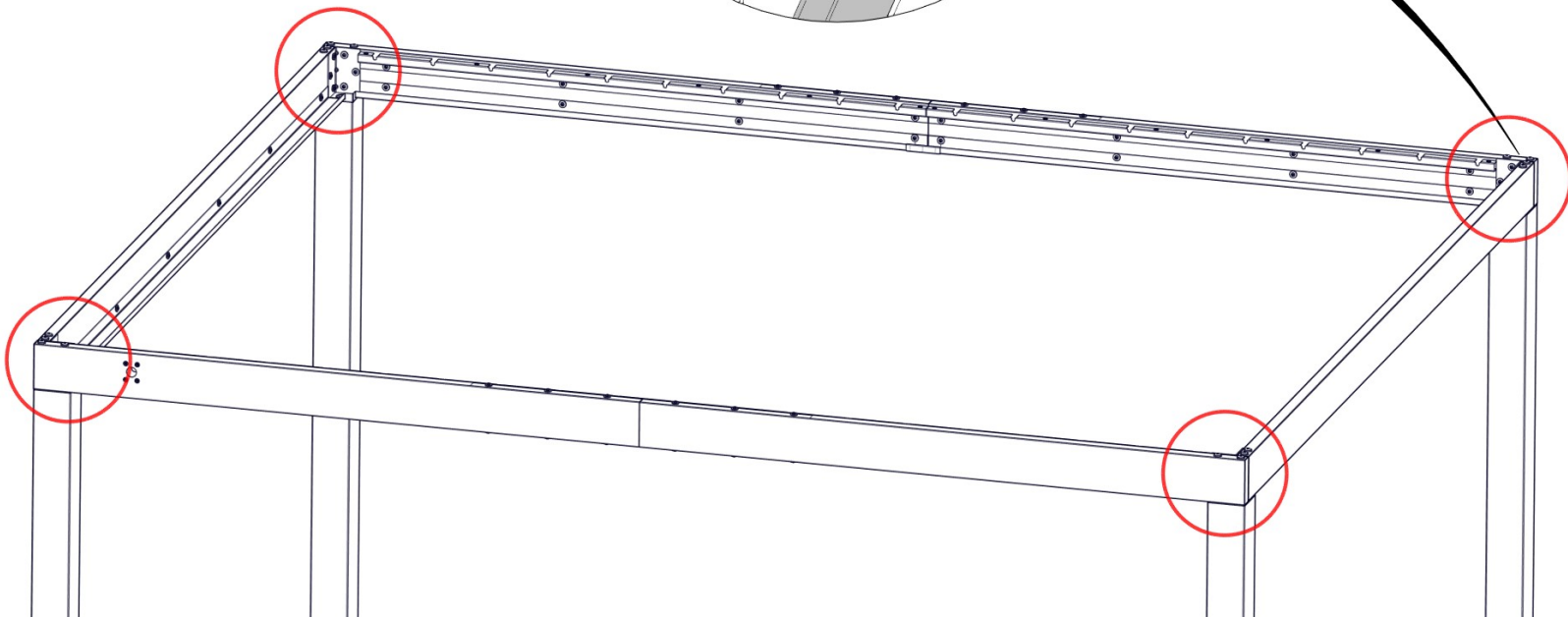
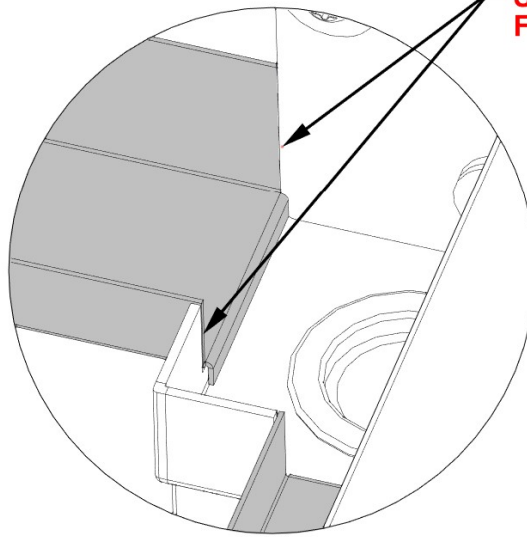
## STEP 19 - GUTTER SEALANT



A6P00796 SILICONE  
(x1)

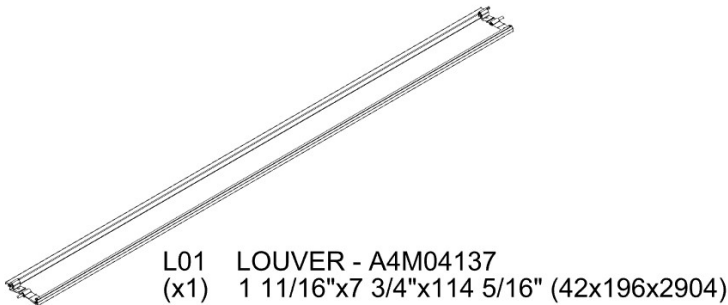
- **APPLY A FINE BEAD OF SILICONE ALONG INSIDE SURFACE OF GUTTER WHERE GUTTER PIECES MEET POST.**
- **SMOOTH SILICONE, WIPING EXCESS USING A RAG OR PAPER TOWEL**
- **REPEAT THIS STEP FOR ALL GUTTER ATTACHMENT POINTS AT EACH POST.**
- **GLOVES ARE RECOMMENDED WHEN APPLYING SILICONE**
- **MAKE SURE SURFACE OF GUTTER SPLICE IS CLEAN, DRY, AND FREE OF ANY DIRT/DEBRIS**

**NOTE: APPLY A FINE BEAD OF SILICONE TO PREVENT WATER FROM LEAKING**

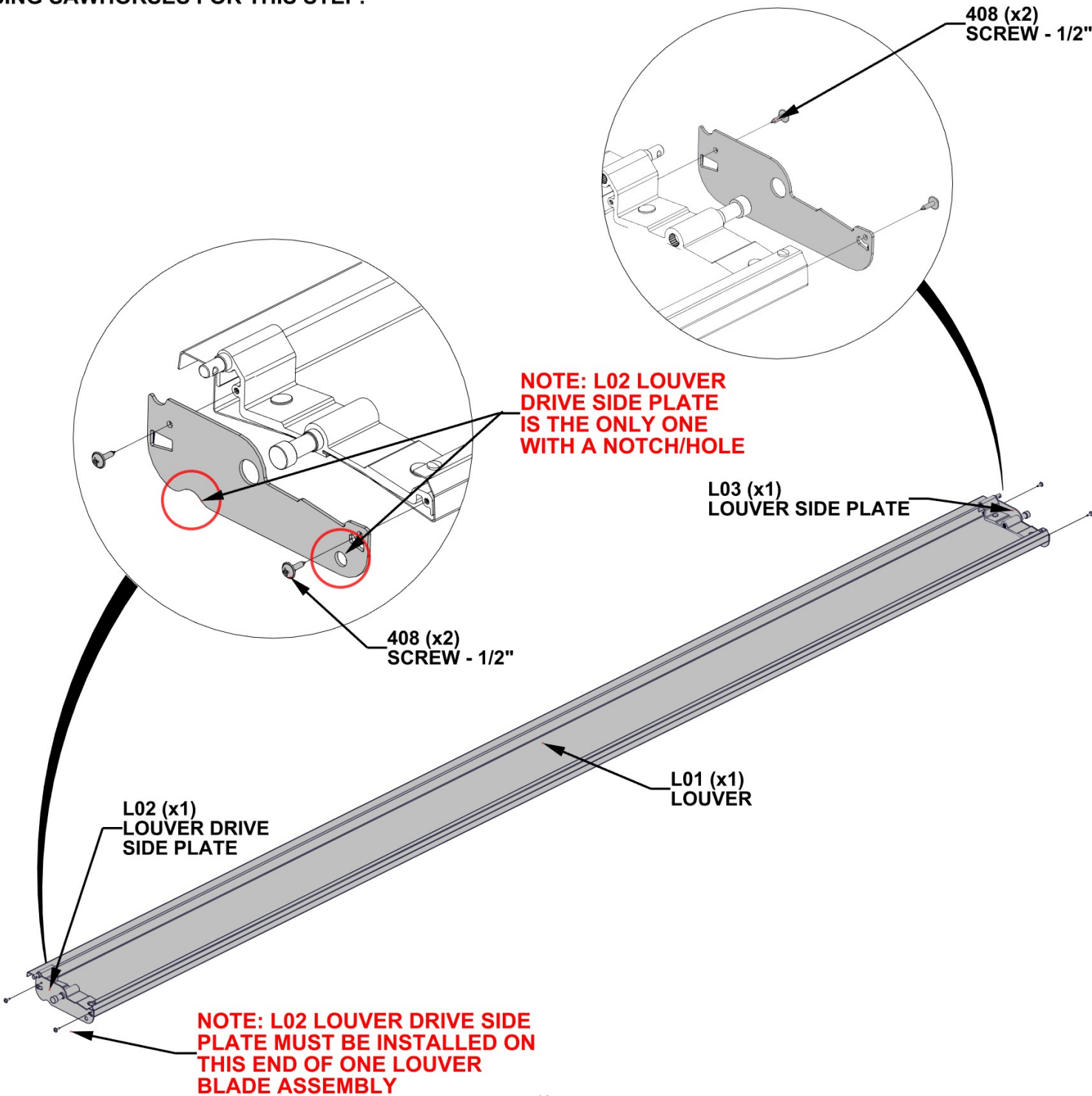


# STEP 20 - DRIVE LOUVER ASSEMBLY

| QTY | PART NUMBER | DESCRIPTION         |
|-----|-------------|---------------------|
| 4   | H100408     | SCREW PWH 8x1/2 BLK |

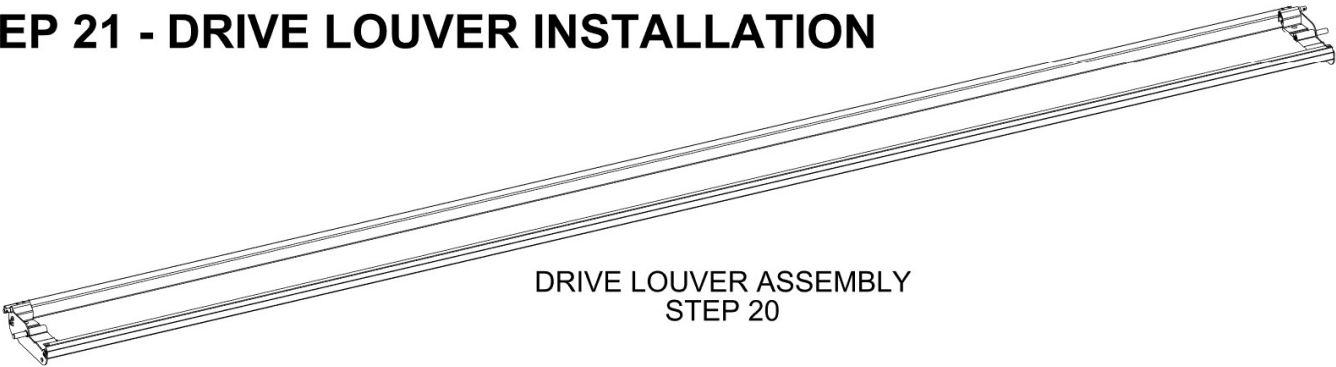


- DO NOT OVERTIGHTEN SCREWS  
- FOR EASE OF ASSEMBLY, WE RECOMMEND USING SAWHORSES FOR THIS STEP.





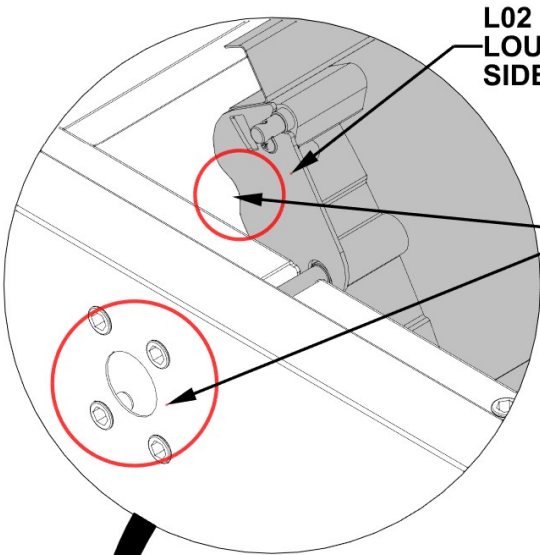
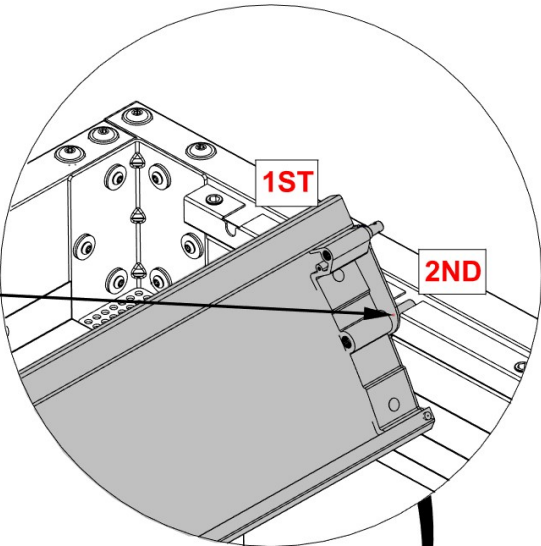
# STEP 21 - DRIVE LOUVER INSTALLATION



DRIVE LOUVER ASSEMBLY  
STEP 20

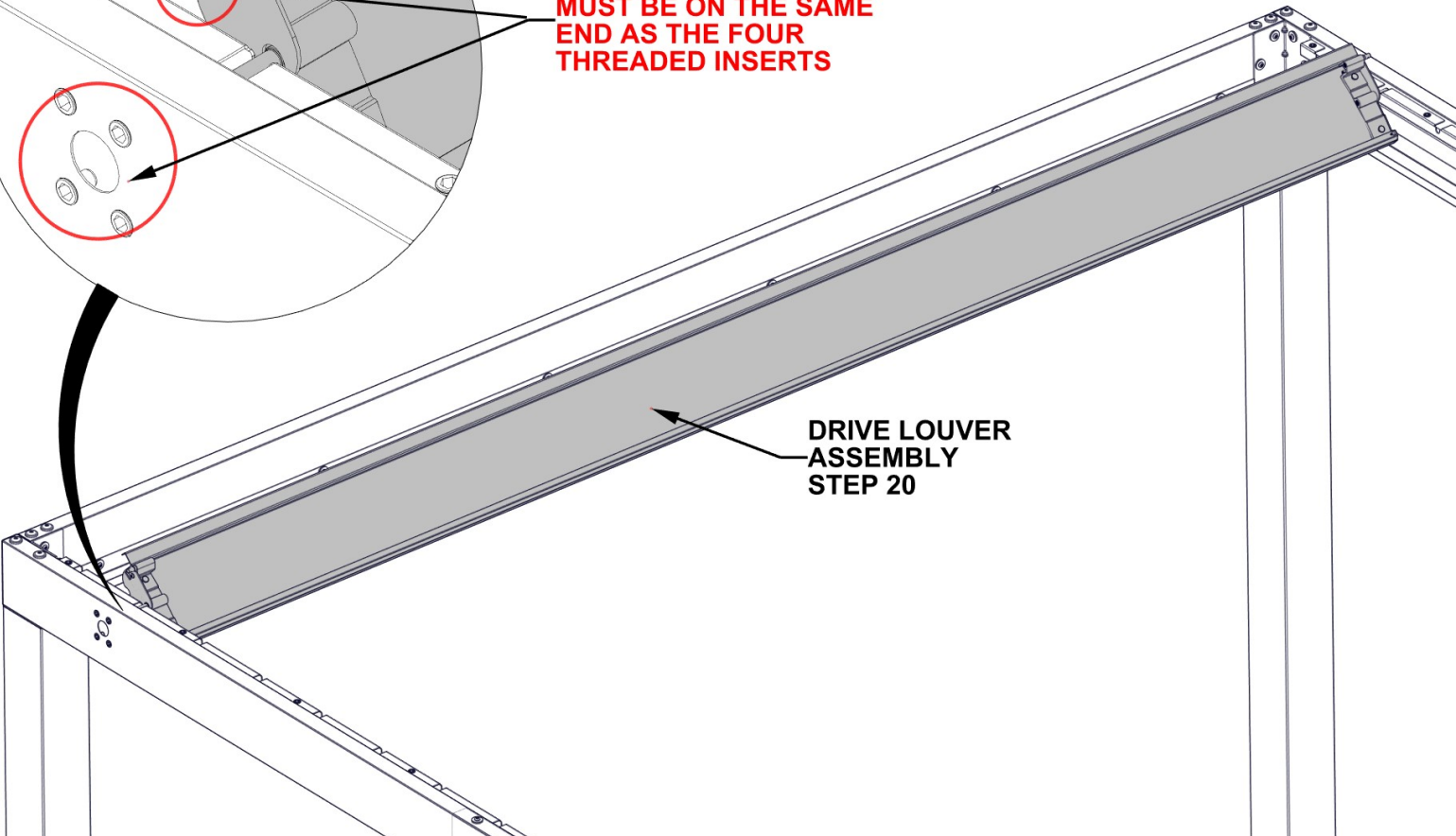
- ORIENTATION OF LOUVER WILL BE DETERMINED BY THE SIDE BEAM WITH FOUR THREADED INSERTS
- PLACE DRIVE LOUVER FROM PREVIOUS STEP IN THE SECOND SET OF LOUVER MOUNT GROOVES. L02 DRIVE PLATE WILL BE ON SAME SIDE AS FOUR THREADED INSERTS IN BEAM.

NOTE: PLACE DRIVE LOUVER ASSEMBLY IN THE SECOND SET OF LOUVER MOUNT GROOVES



L02  
LOUVER DRIVE  
SIDE PLATE

NOTE: L02 SIDE PLATE MUST BE ON THE SAME END AS THE FOUR THREADED INSERTS

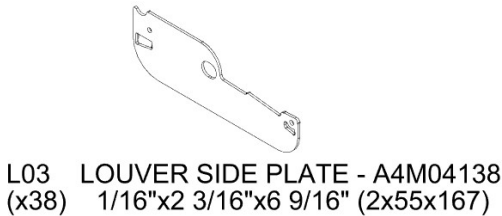
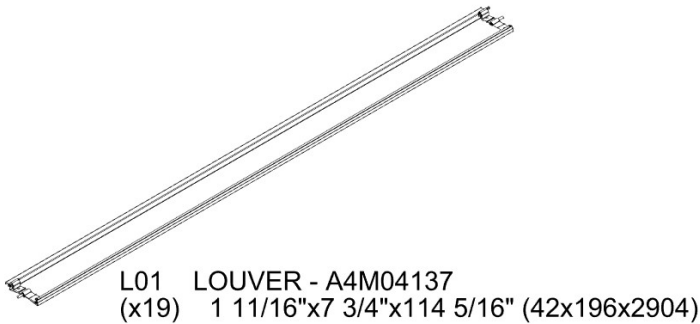


DRIVE LOUVER  
ASSEMBLY  
STEP 20



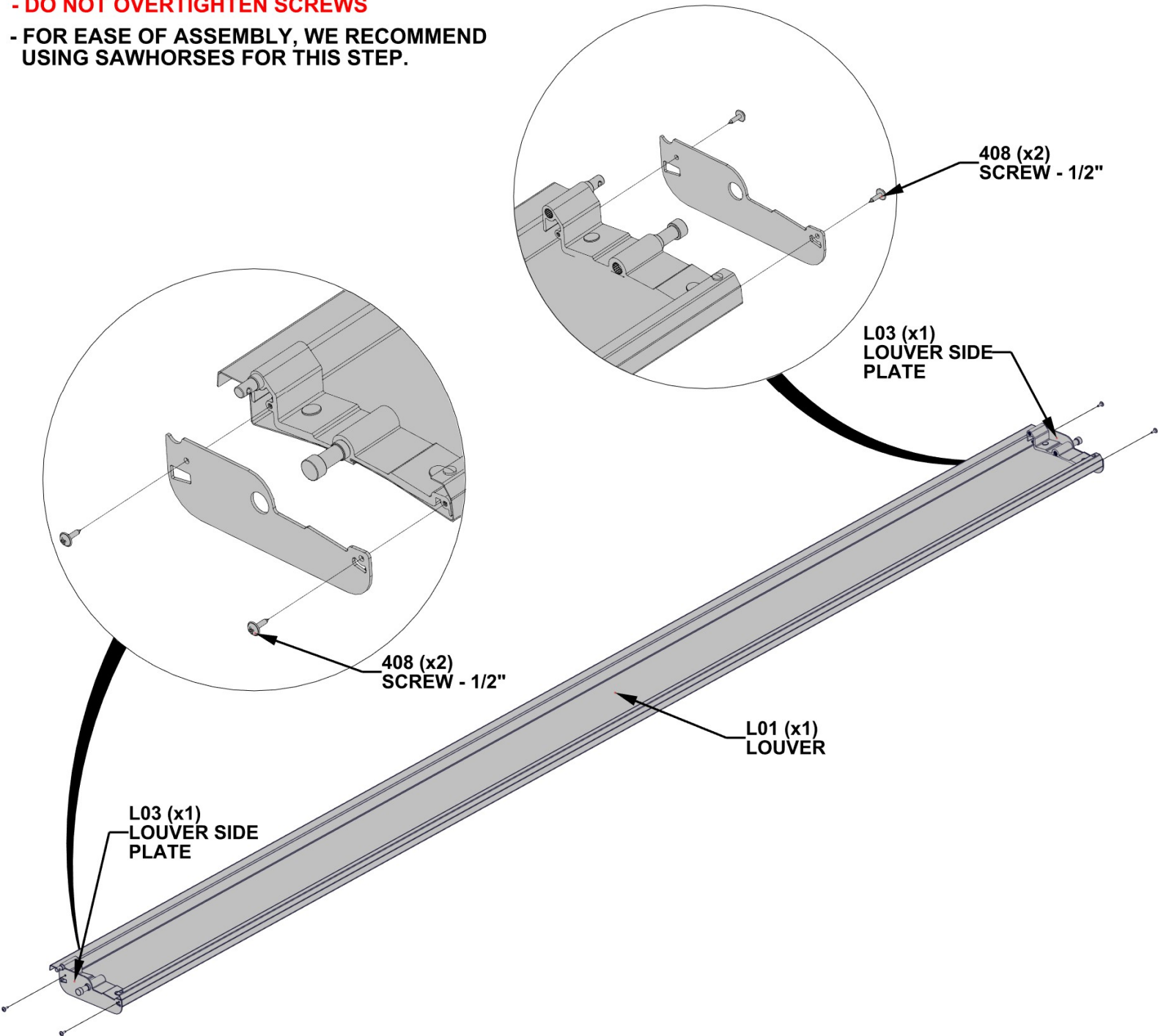
# STEP 22 - LOUVER ASSEMBLY

| QTY | PART NUMBER | DESCRIPTION         |
|-----|-------------|---------------------|
| 76  | H100408     | SCREW PWH 8x1/2 BLK |

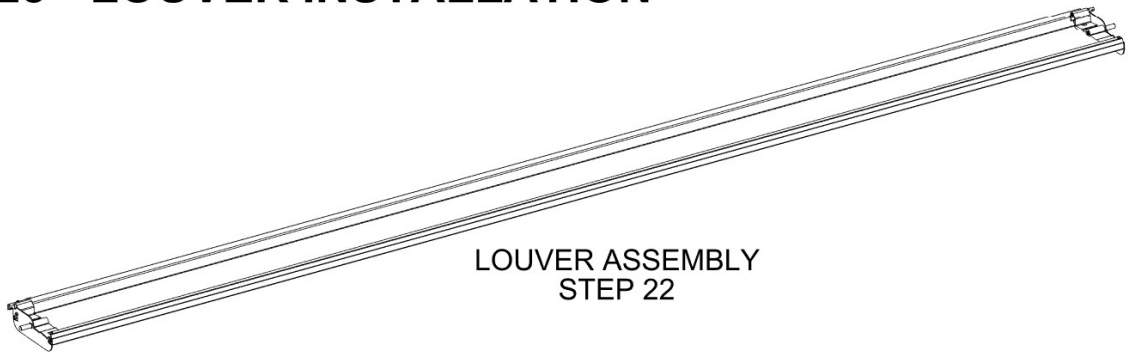


REPEAT THIS STEP 19 TIMES

- DO NOT OVERTIGHTEN SCREWS
- FOR EASE OF ASSEMBLY, WE RECOMMEND USING SAWHORSES FOR THIS STEP.

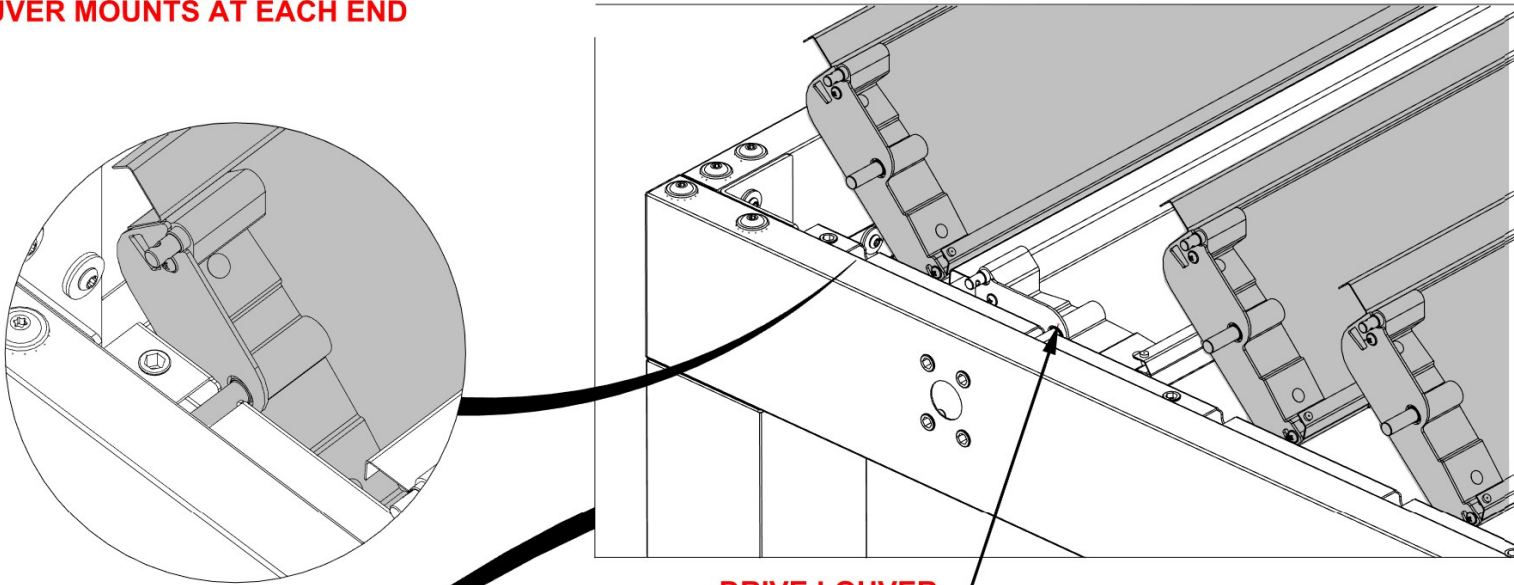


# STEP 23 - LOUVER INSTALLATION

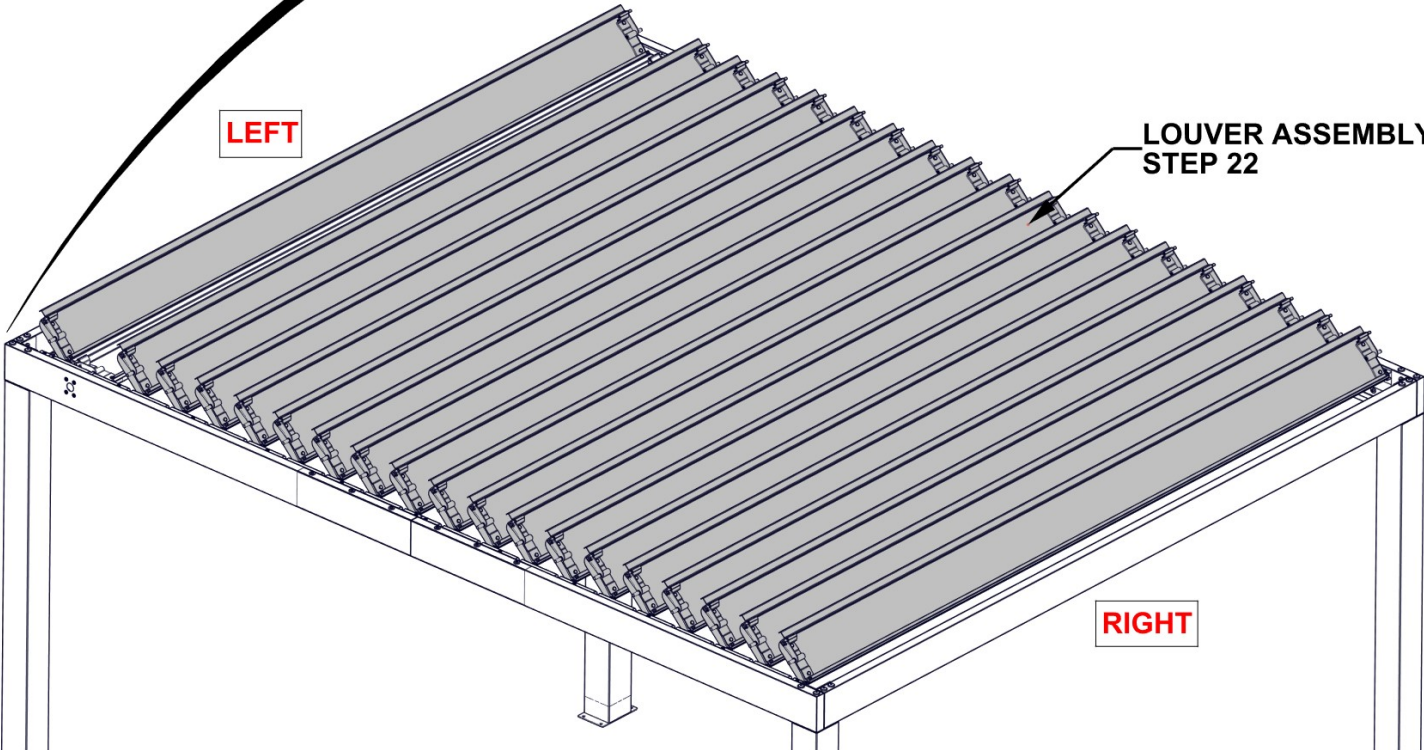


STARTING AT THE LEFT SIDE AND WORKING TO THE RIGHT, CAREFULLY SET EACH LOUVER ASSEMBLY ONE AT A TIME INTO LOUVER MOUNTS AT EACH END

NOTE: MAKE SURE ALL LOUVER BLADE ASSEMBLIES ARE ORIENTED IN THE SAME DIRECTION



DRIVE LOUVER FROM STEP 21





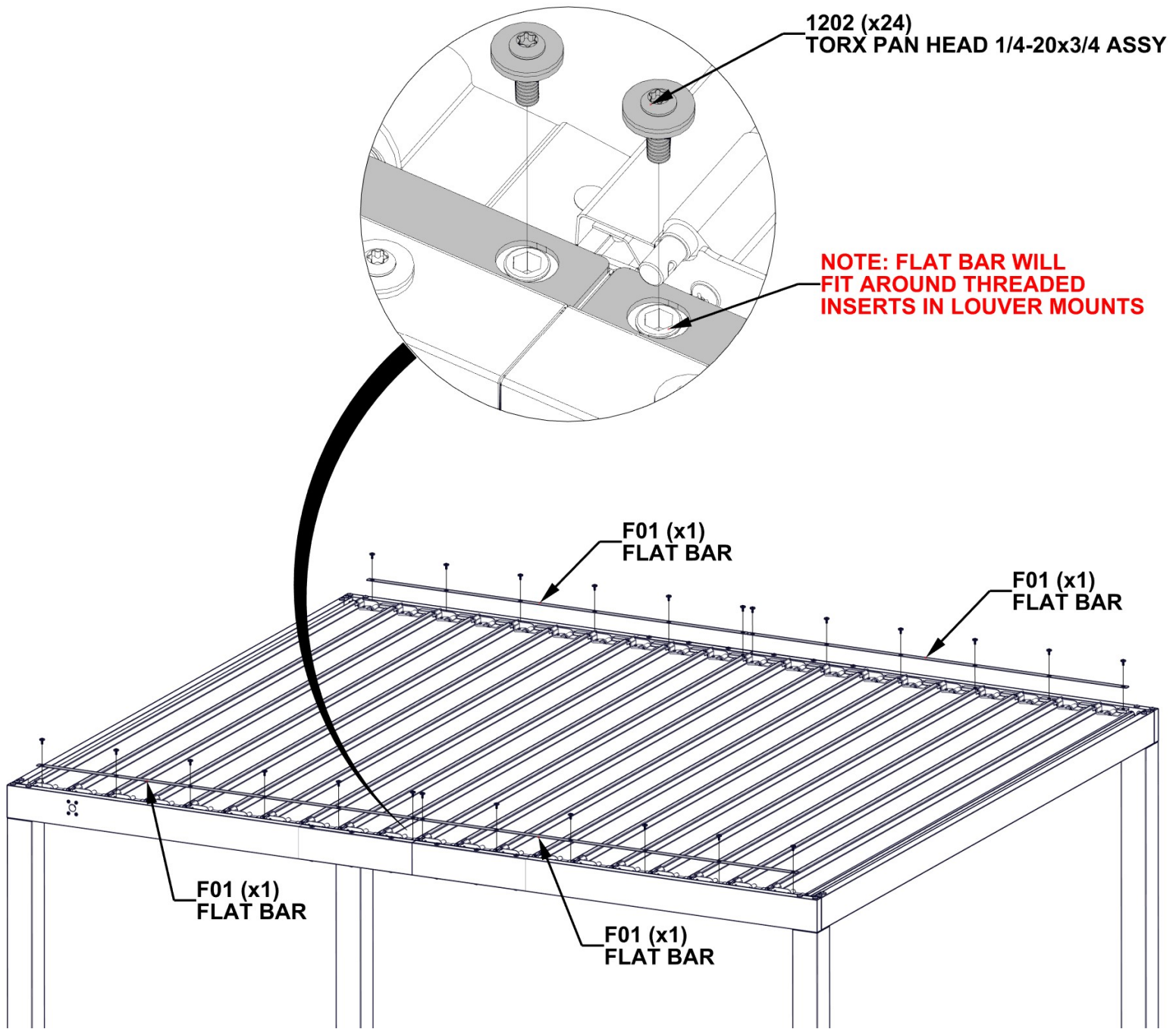
# STEP 24 - LOUVER INSTALLATION



| QTY | PART NUMBER | DESCRIPTION                   |
|-----|-------------|-------------------------------|
| 24  | H101202     | TORX PAN HEAD 1/4-20x3/4 ASSY |

F01 FLAT BAR - A4M02859  
(x4) 1/16"x1"x65 7/8" (2x25x1673)

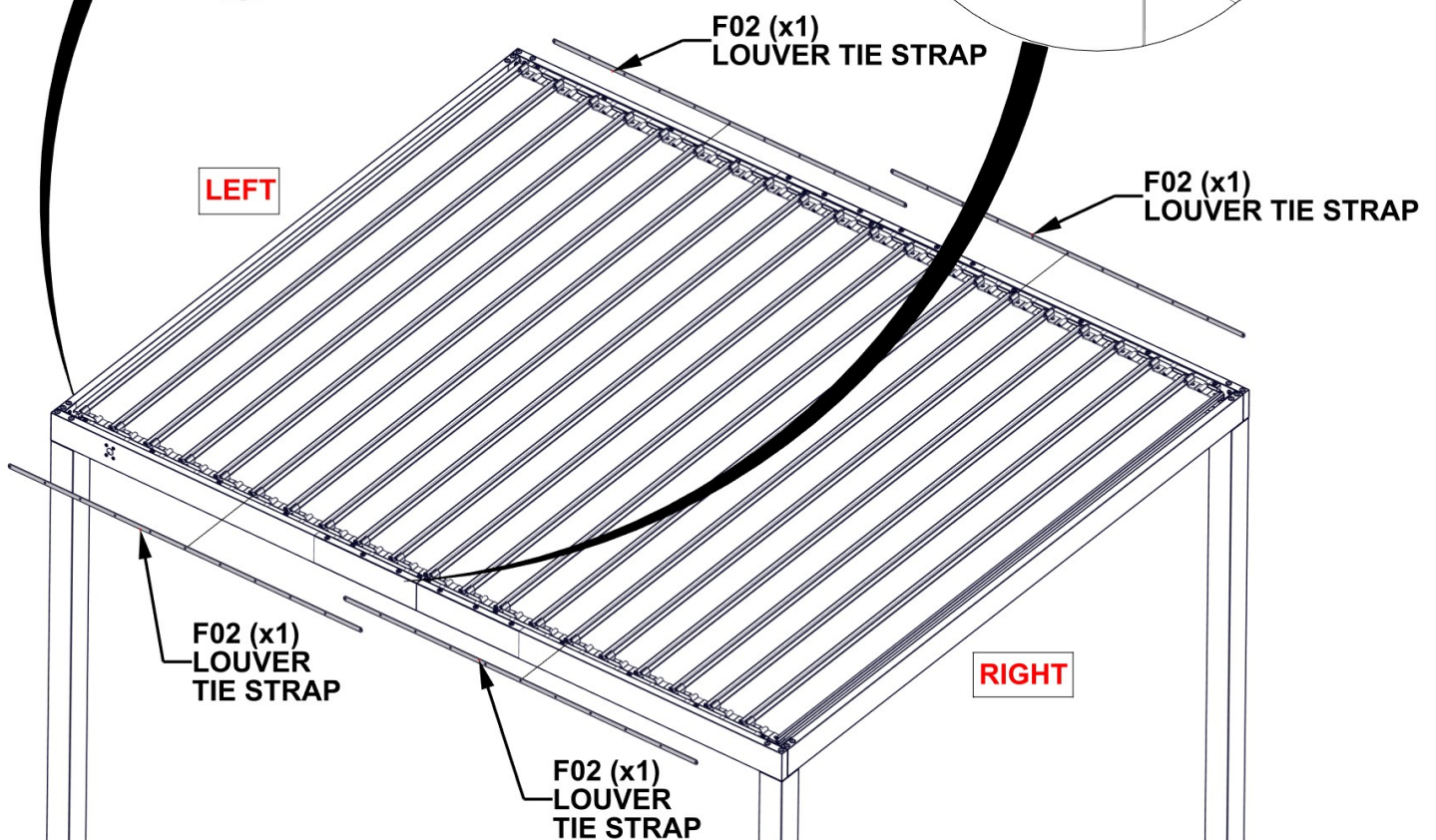
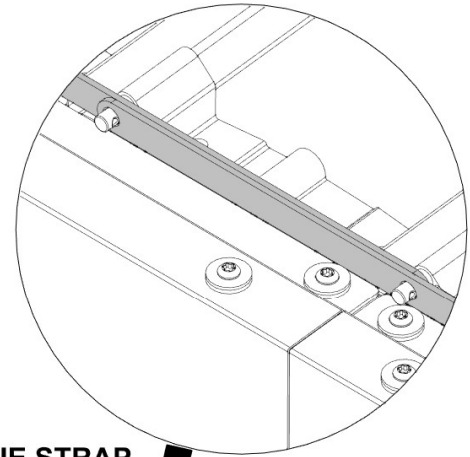
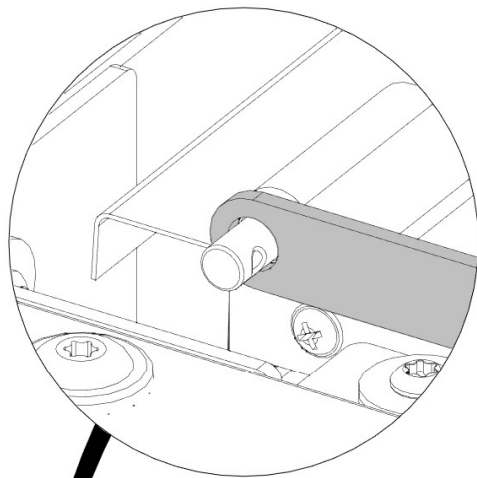
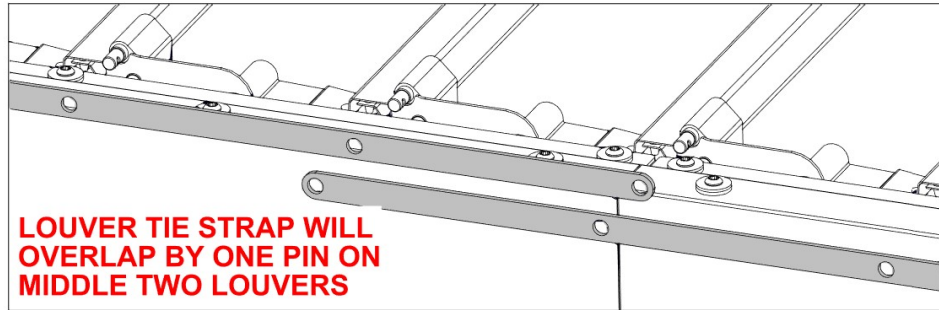
- ATTACH FLAT BAR ALONG EACH LOUVER MOUNT.
- FLAT BAR WILL HOLD ALL LOUVERS IN PLACE.



## STEP 25A - LOUVER INSTALLATION

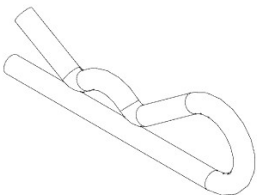
F02 LOUVER TIE STRAP - A4M02860  
(x4) 1/8"x13/16"x68 1/16" (3x20x1730)

- LOUVER TIE STRAPS WILL CONNECT ALL LOUVERS TO ONE ANOTHER
- STARTING ON THE LEFT AND WORKING TO THE RIGHT, CONNECT LOUVERS USING TIE STRAPS. OVERLAP TIE STRAPS TO HOLD MIDDLE LOUVERS TOGETHER



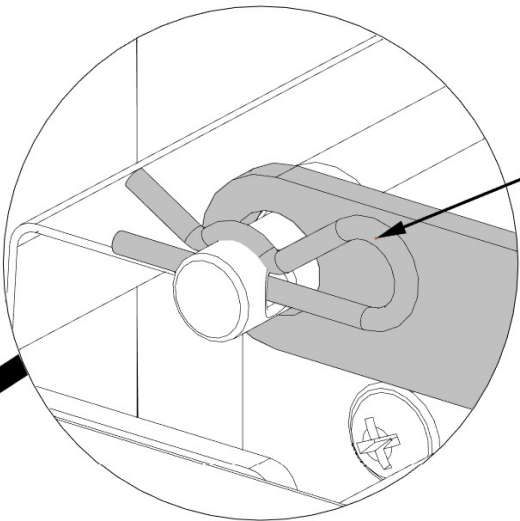


# STEP 25B - LOUVER INSTALLATION

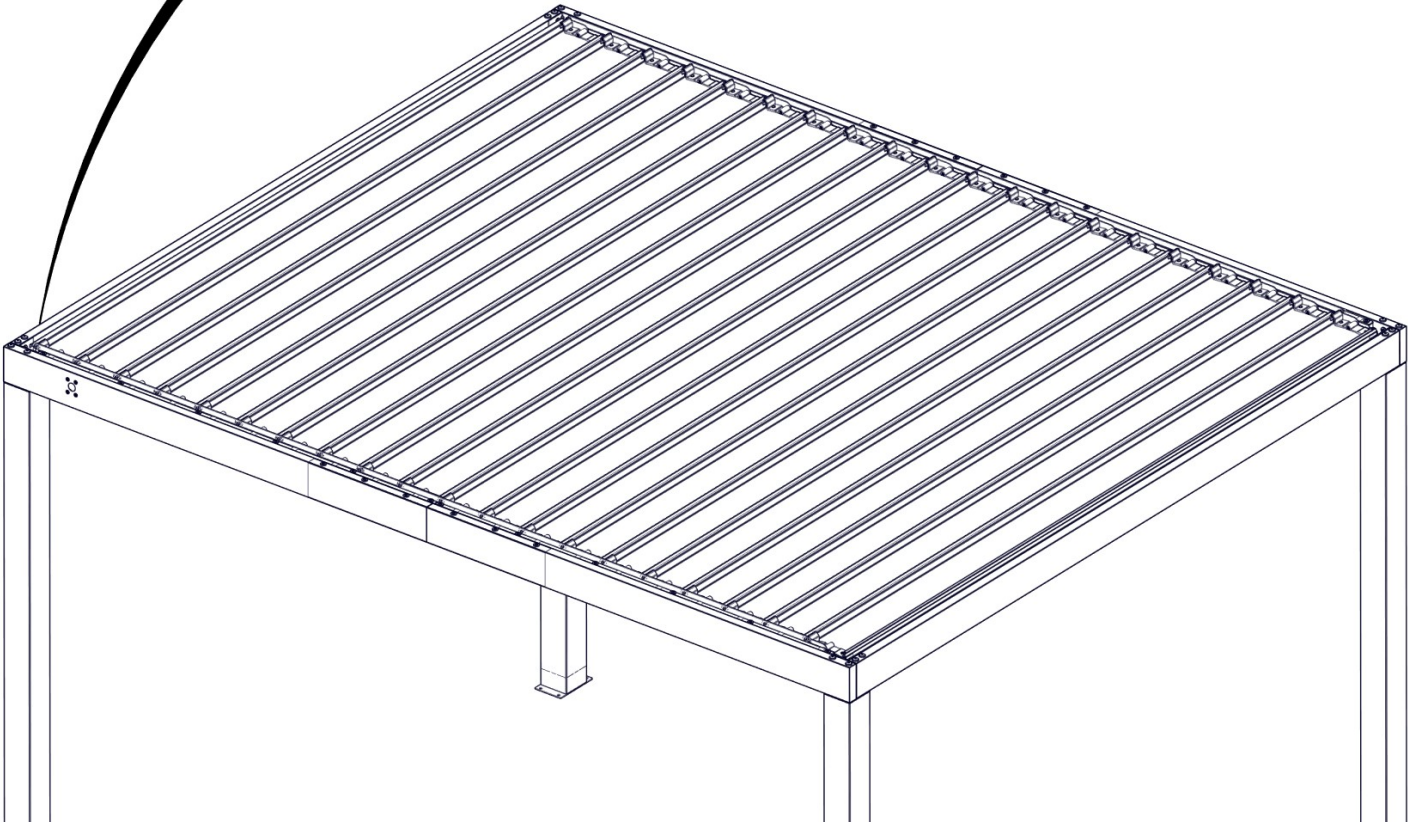


H101161 COTTER PIN  
(x40)

- INSTALL COTTER PINS ON EACH LOUVER  
TO HOLD TIE STRAPS IN PLACE.



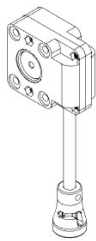
1161 (x40)  
COTTER PIN





# STEP 26 - LOUVER MECHANISM

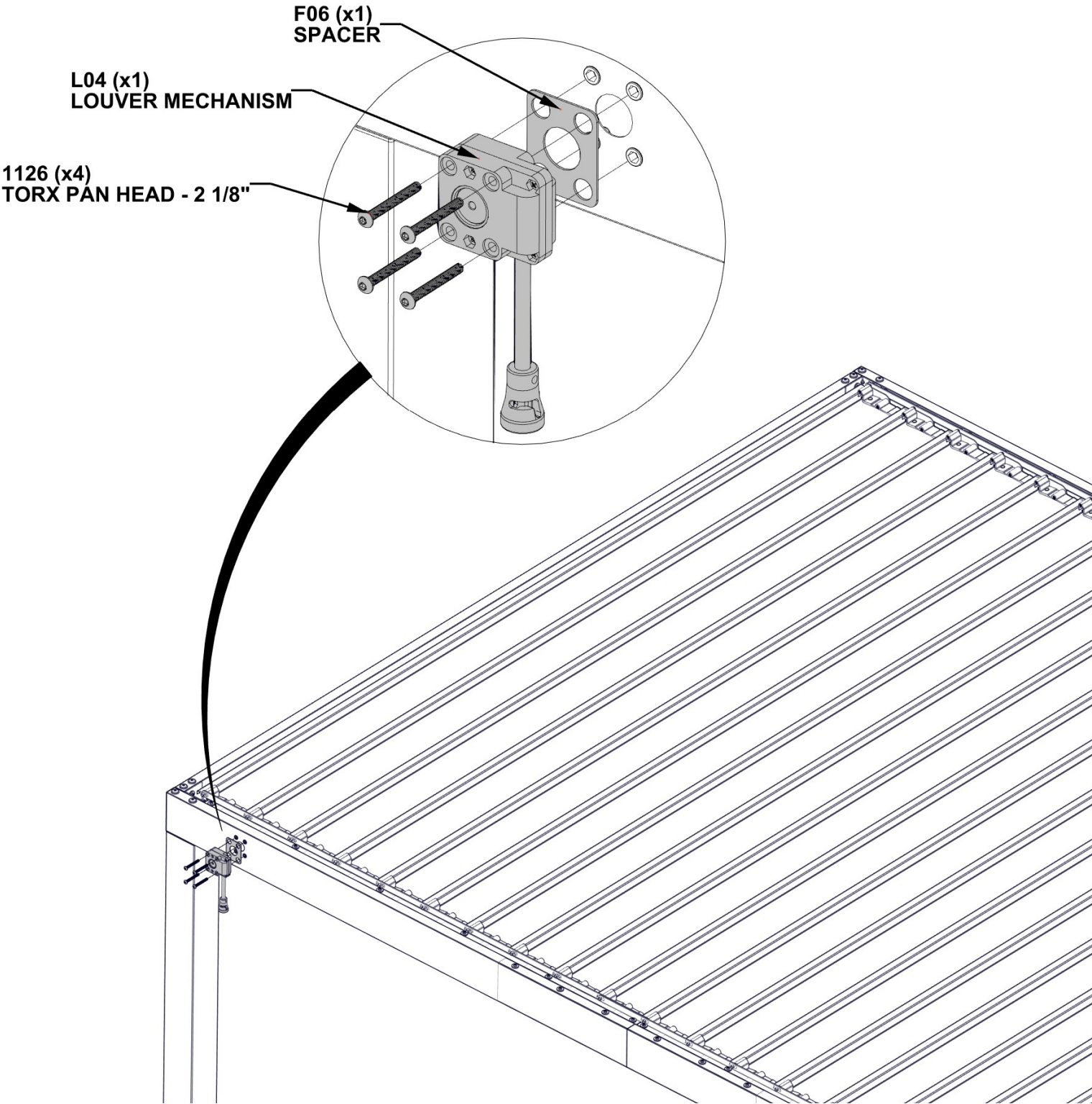
| QTY | PART NUMBER | DESCRIPTION                 |
|-----|-------------|-----------------------------|
| 4   | H101126     | TORX PAN HEAD 1/4-20x2 1/8" |



L04 LOUVER MECHANISM  
(x1) A4M02132

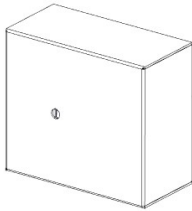


F06 SPACER - A4M02227  
(x1) 1/16"x2 3/16"x2 3/4" (1.5x56x70)

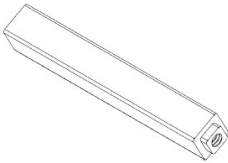


# STEP 27 - LOUVER MECHANISM

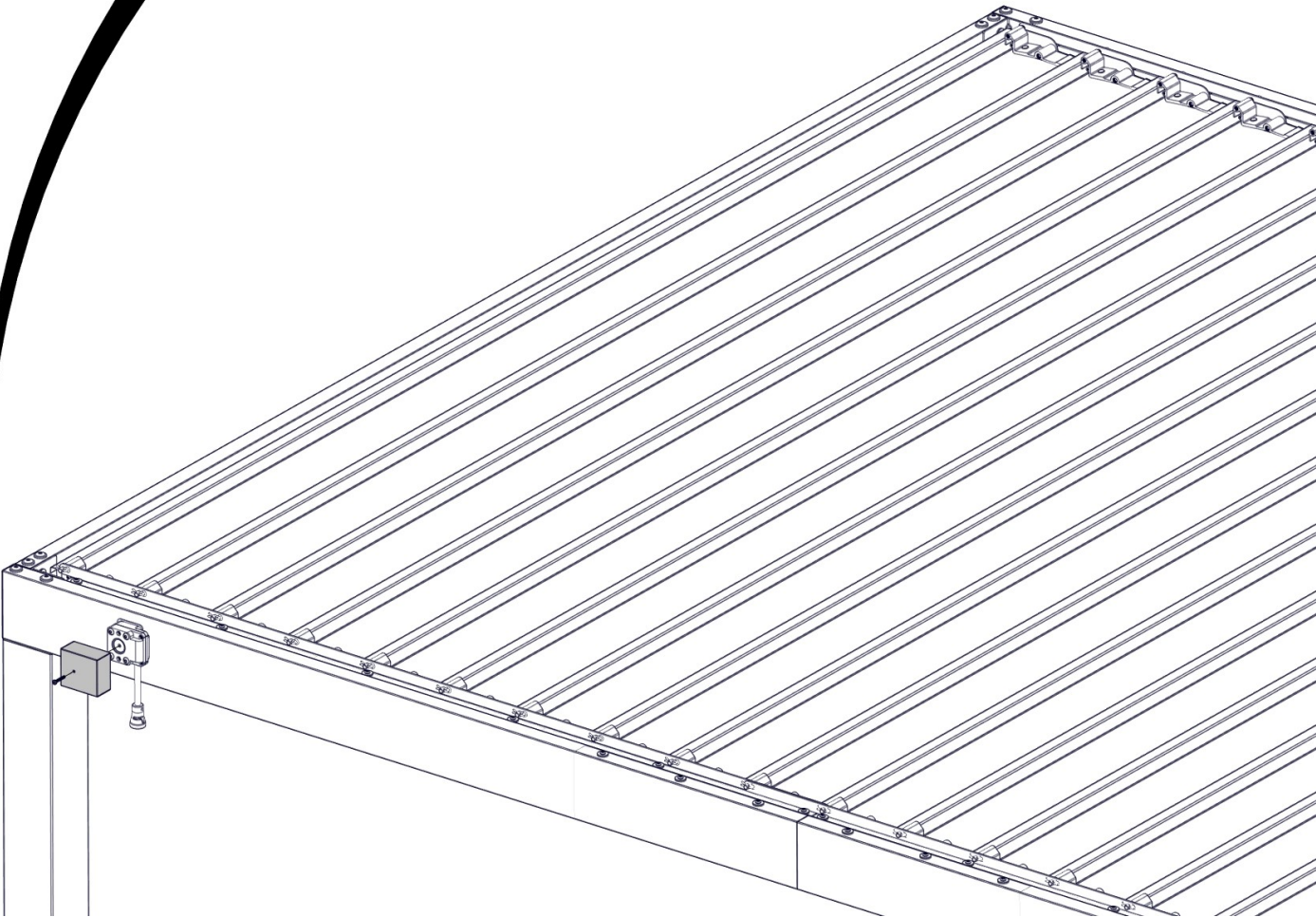
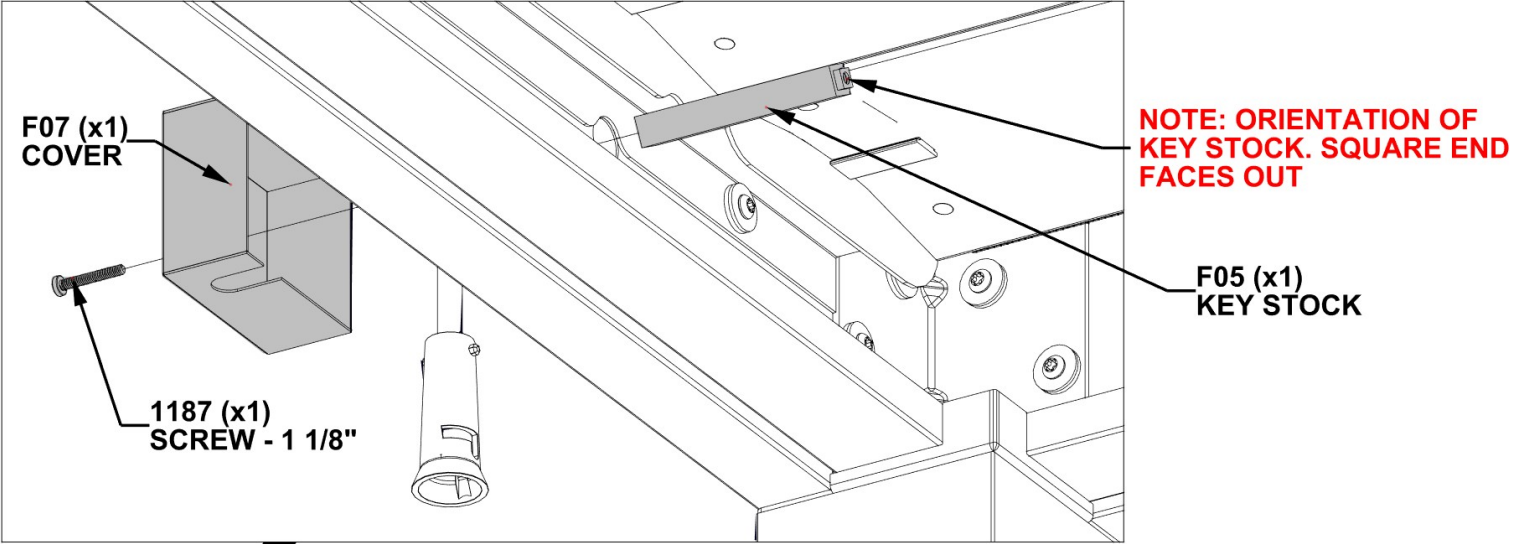
| QTY | PART NUMBER | DESCRIPTION             |
|-----|-------------|-------------------------|
| 1   | H101187     | BOLT PPH 8-32x1 1/8 BLK |



F07 COVER - A4M02228  
(x1) 1 9/16"x2 7/8"x3 1/4" (39.5x73x82)

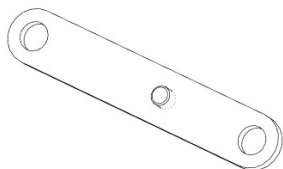


F05 KEY STOCK - A4M02226  
(x1) 1/2"x1/2"x3 3/4" (13x13x95)

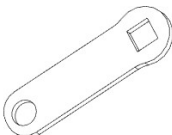


# STEP 28A - LOUVER MECHANISM

| QTY | PART NUMBER | DESCRIPTION                           |
|-----|-------------|---------------------------------------|
| 1   | H101189     | LOW PROFILE SHOULDER BOLT 1/4-20x.375 |
| 1   | H100653     | NUT LOCK 1/4 BLK                      |
| 2   | H100474     | WASHER FLAT 9x18 BLK                  |

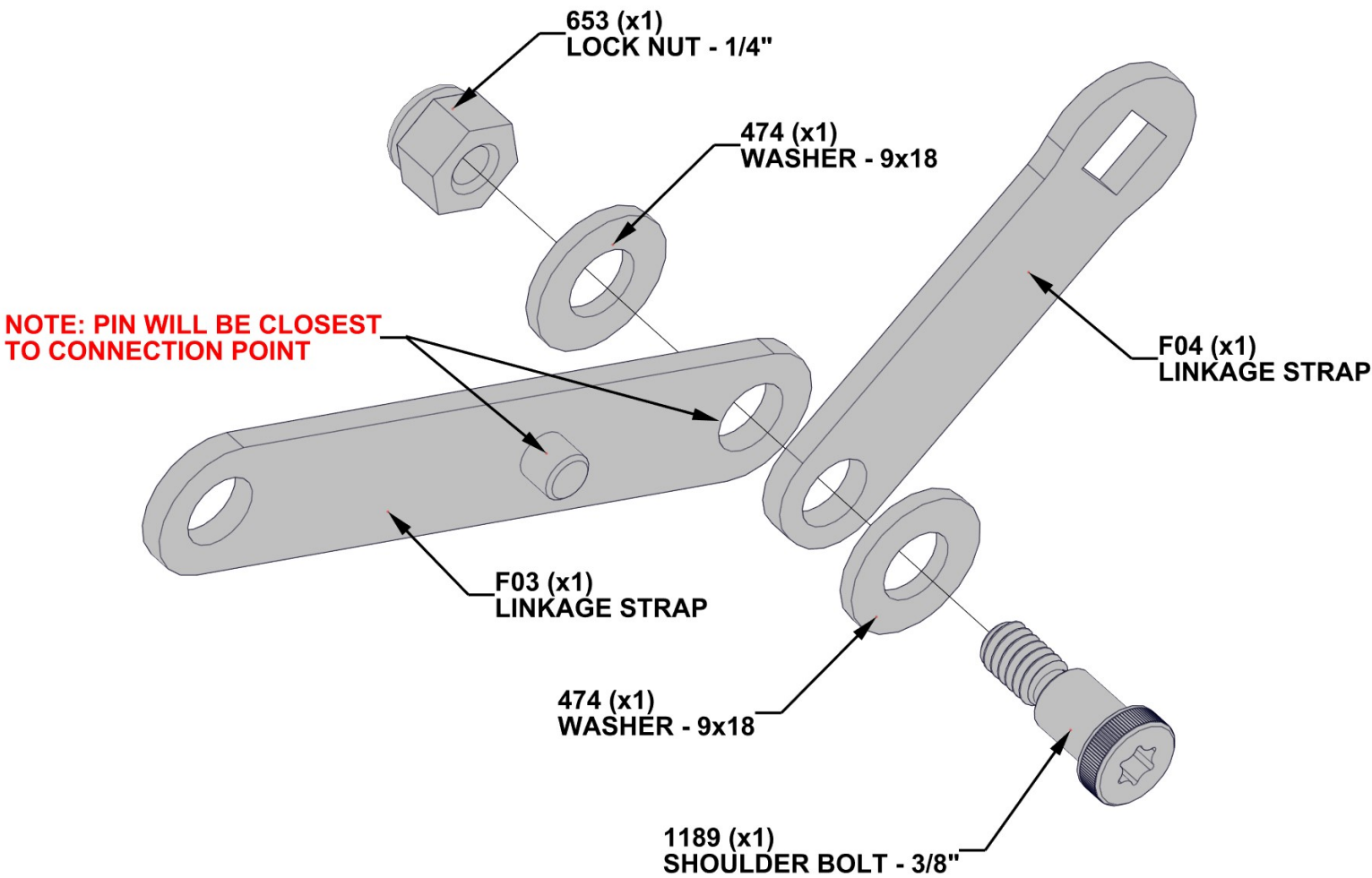


F03 LINKAGE STRAP - A4M02229  
(x1) 1/2"x11/16"x3 13/16" (13x17x97)



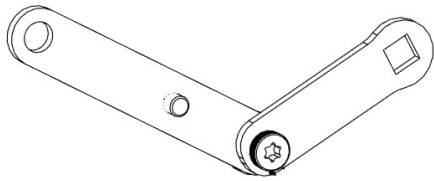
F04 LINKAGE STRAP - A4M02225  
(x1) 1/8"x13/16"x2 5/8" (3x20x66)

- LINKAGE MUST BE ORIENTED AS SHOWN BELOW.
- DO NOT OVERTIGHTEN HARDWARE.
- LINKAGES SHOULD BE ABLE TO ROTATE FREELY.





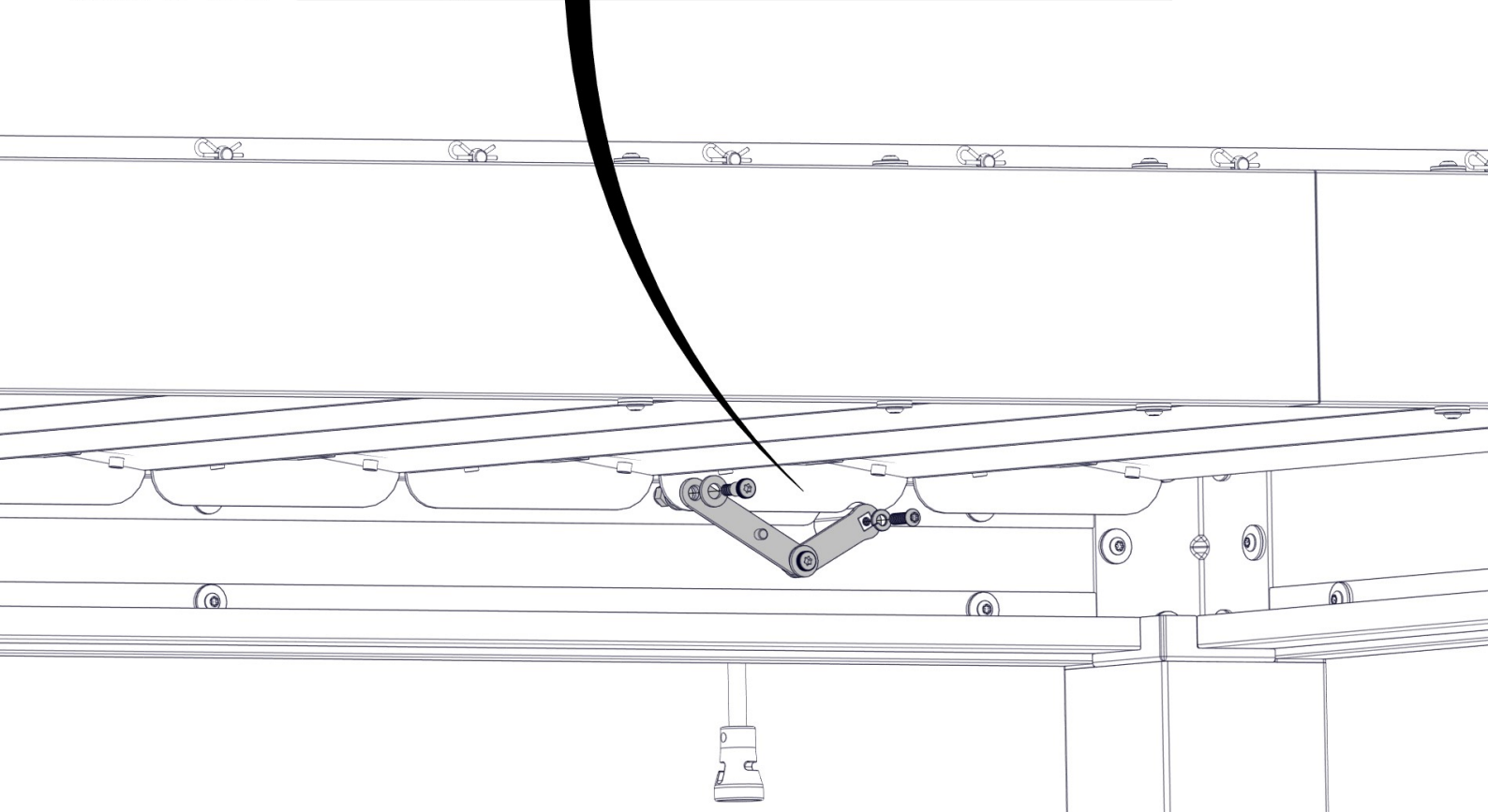
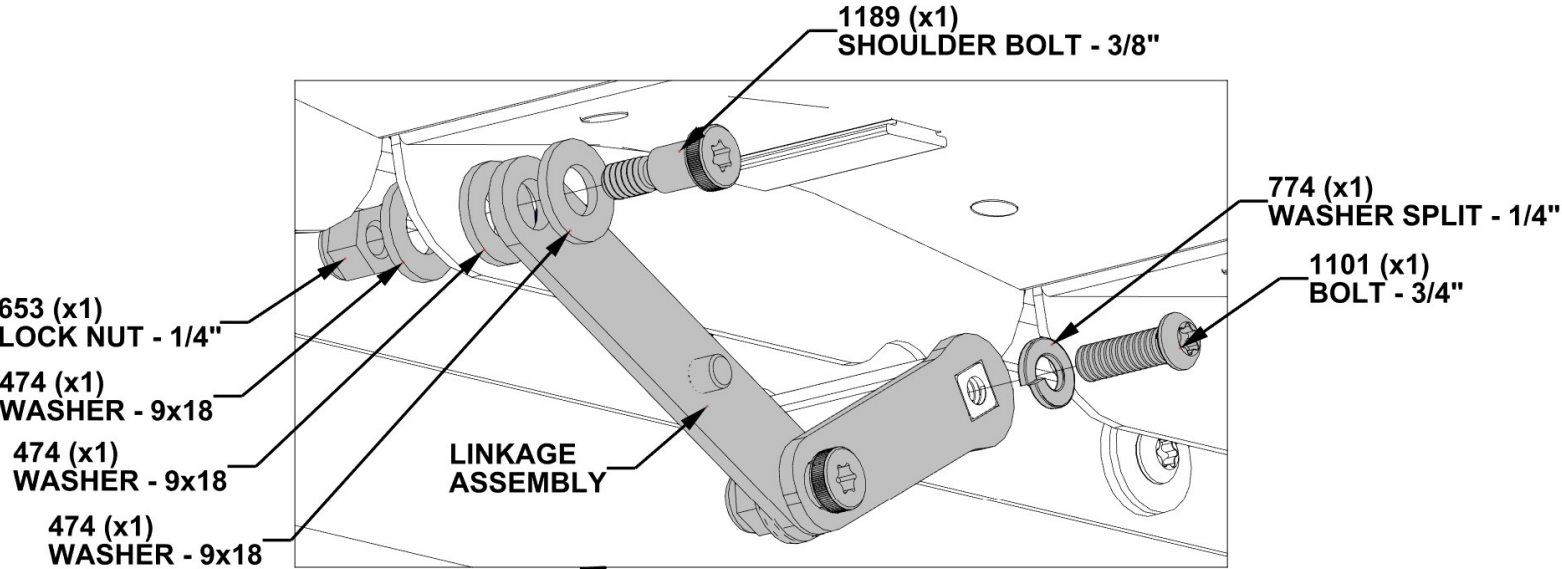
# STEP 28B - LOUVER MECHANISM



LINKAGE ASSEMBLY  
STEP 28A

| QTY | PART NUMBER | DESCRIPTION                           |
|-----|-------------|---------------------------------------|
| 1   | H101101     | TORX PAN HEAD 1/4-20x3/4"             |
| 1   | H100774     | WASHER SPLIT 1/4 BLK                  |
| 1   | H101189     | LOW PROFILE SHOULDER BOLT 1/4-20x.375 |
| 1   | H100653     | NUT LOCK 1/4 BLK                      |
| 3   | H100474     | WASHER FLAT 9x18 BLK                  |

- LINKAGES MUST BE ORIENTED AS SHOWN BELOW.
- DO NOT OVERTIGHTEN HARDWARE.
- LINKAGES SHOULD BE ABLE TO ROTATE FREELY.

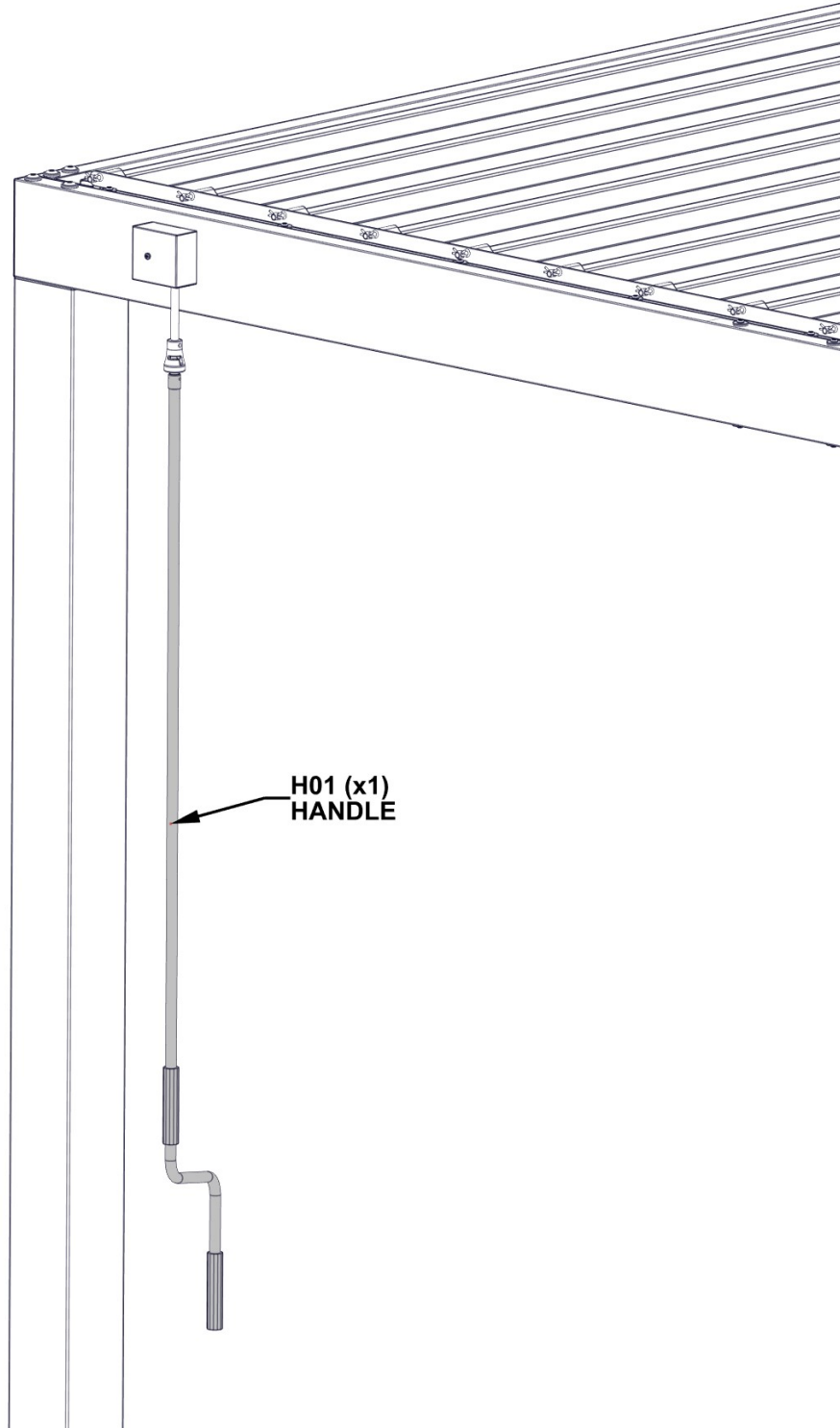


# STEP 28C - LOUVER MECHANISM



H01 (x1) HANDLE  
A4M04022

- CONNECT CRANK HANDLE TO MECHANISM.  
TURN HANDLE TO LOCK IN PLACE.



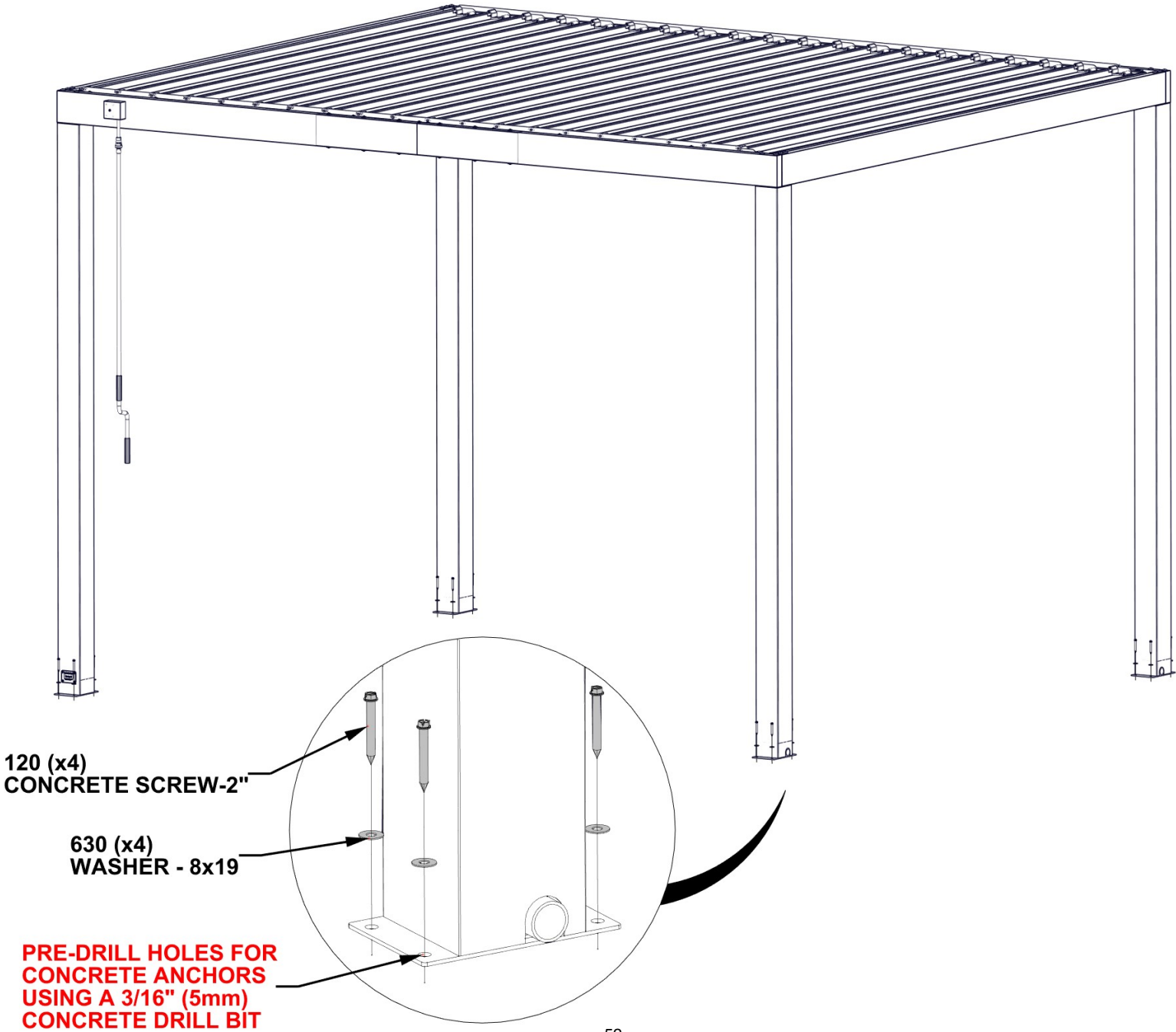


# STEP 29 - PERGOLA ANCHORING

| QTY | PART NUMBER | DESCRIPTION             |
|-----|-------------|-------------------------|
| 16  | H100120     | CONCRETE ANCHOR 1/4"x2" |
| 16  | H100630     | WASHER FLAT 8x19 BLK    |

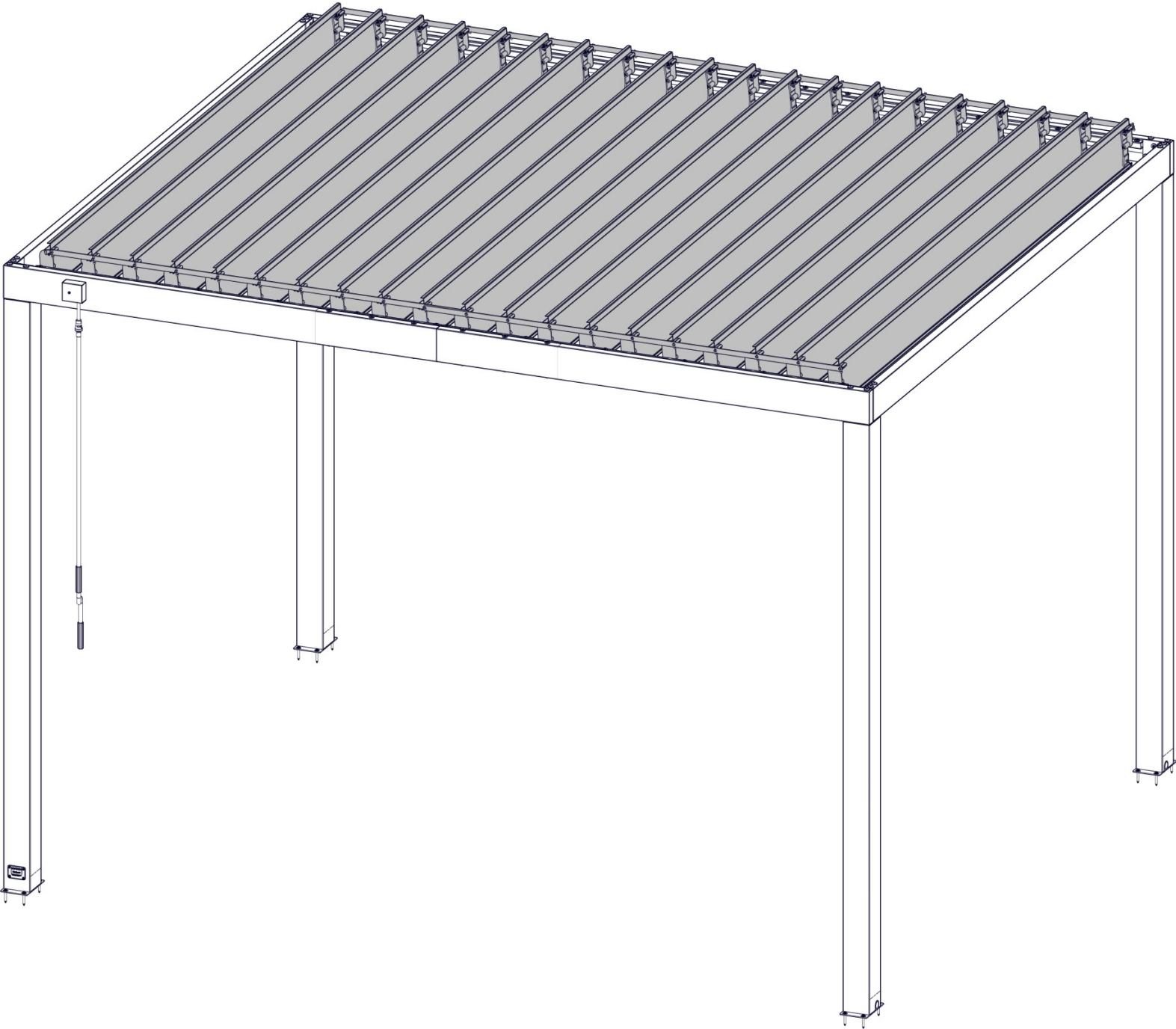
REPEAT THIS STEP FOR ALL FOUR POSTS

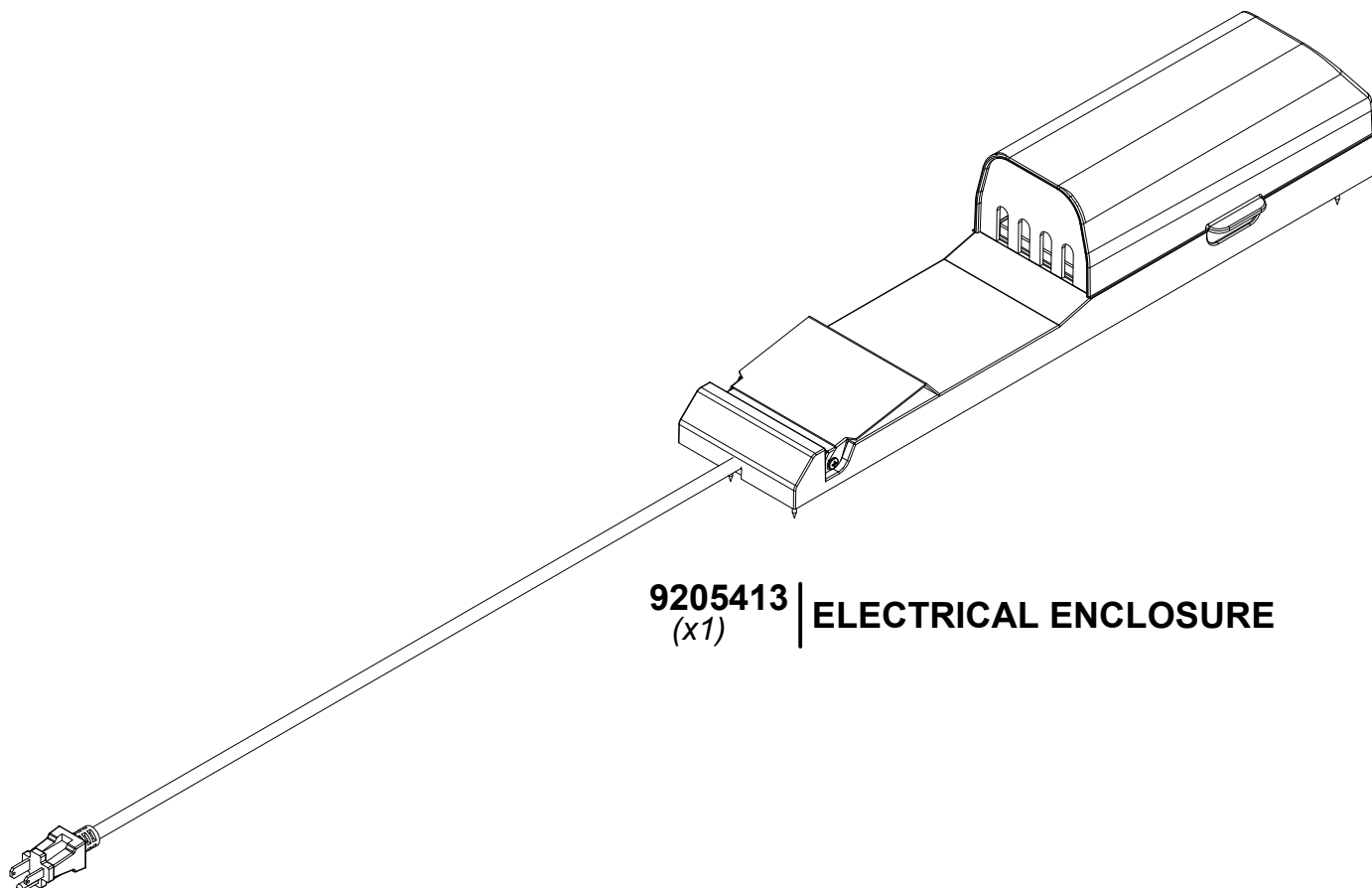
- MANUFACTURER RECOMMENDS INSTALLATION ON CONCRETE SURFACE OR CONCRETE POST PADS. SEE BELOW.
- FOR INSTALLATION ON WOOD DECKS, YOU MUST ENSURE THERE IS AMPLE STRUCTURAL SUPPORT UNDER DECK.



## STEP 30 - PREVENTATIVE MAINTENANCE

**NOTE - IT IS IMPORTANT TO TAKE CAUTION WHEN HIGH WINDS OR WINTER WEATHER SUCH AS ICE OR SNOW IS EXPECTED. IF INCLEMENT WEATHER ARISES, IT IS RECOMMENDED TO TURN LOUVERS INTO THE FULLY OPEN (UPRIGHT) POSITION. THIS WILL PREVENT DAMAGE TO THE STRUCTURE AND DECREASE THE CHANCES OF STRUCTURE OR LOUVER DAMAGE.**





**9205413**  
(x1) | **ELECTRICAL ENCLOSURE**

FOR POWERPORT INSTALLATION REFER TO ASSEMBLY INSTRUCTIONS THAT COME PACKAGED WITH THE POWERPORT KIT. INSTALL ON ANY EXTERIOR POST THAT IS DESIRED. FOLLOW DIRECTIONS FOR PROPER INSTALLATION.